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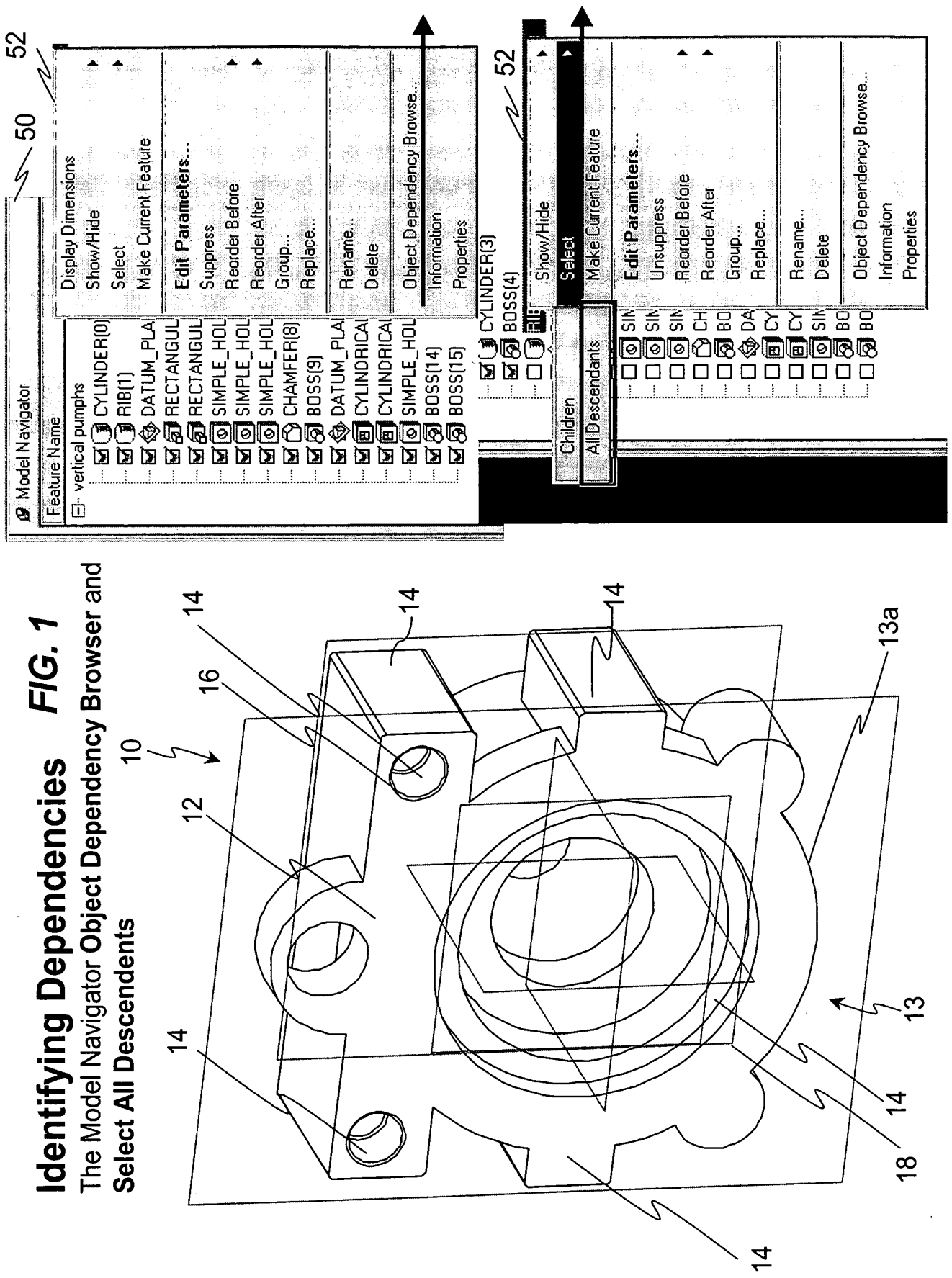
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**Identifying Dependencies** **FIG. 1**  
The Model Navigator Object Dependency Browser and  
Select All Descendants



# DP-310838

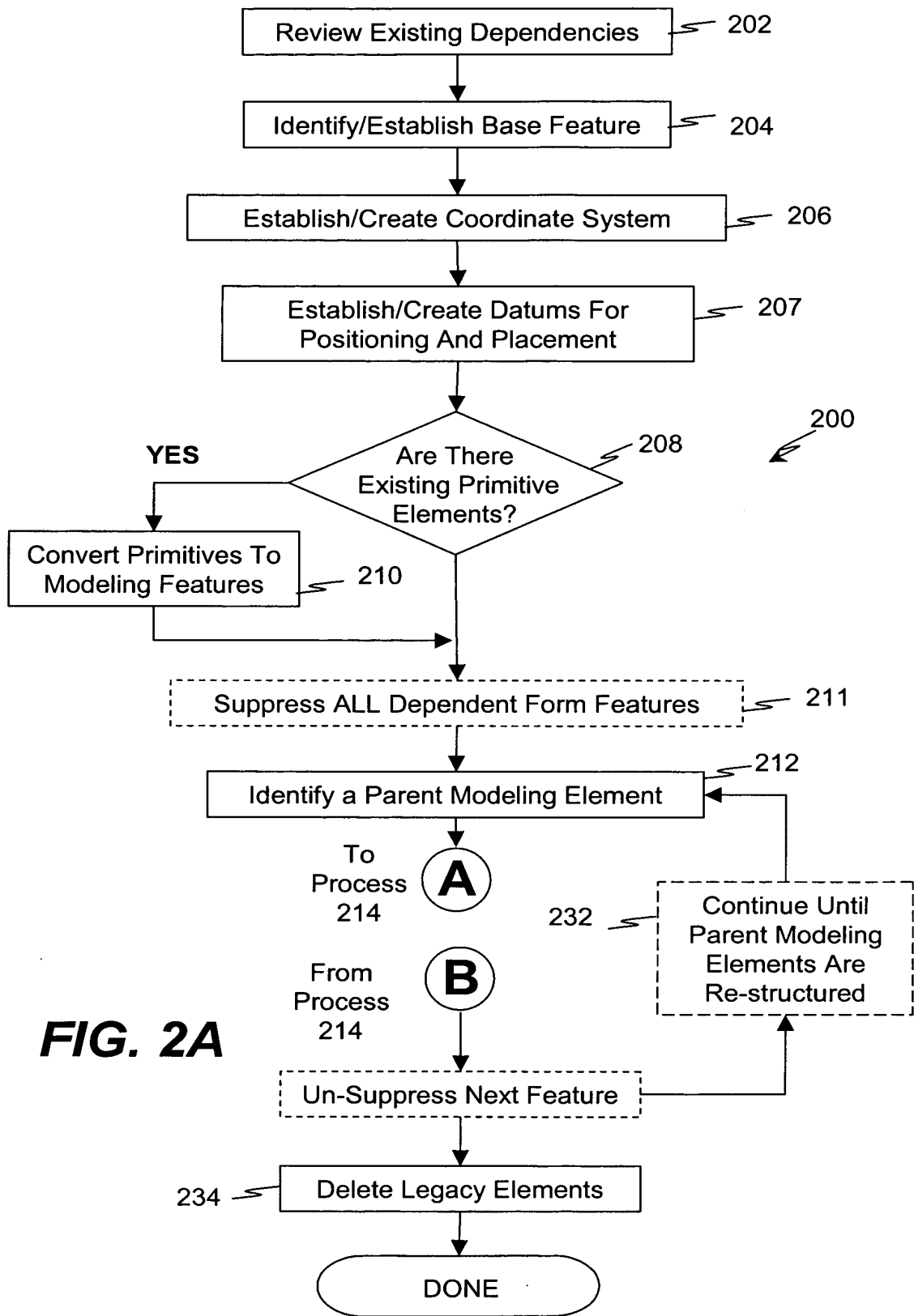
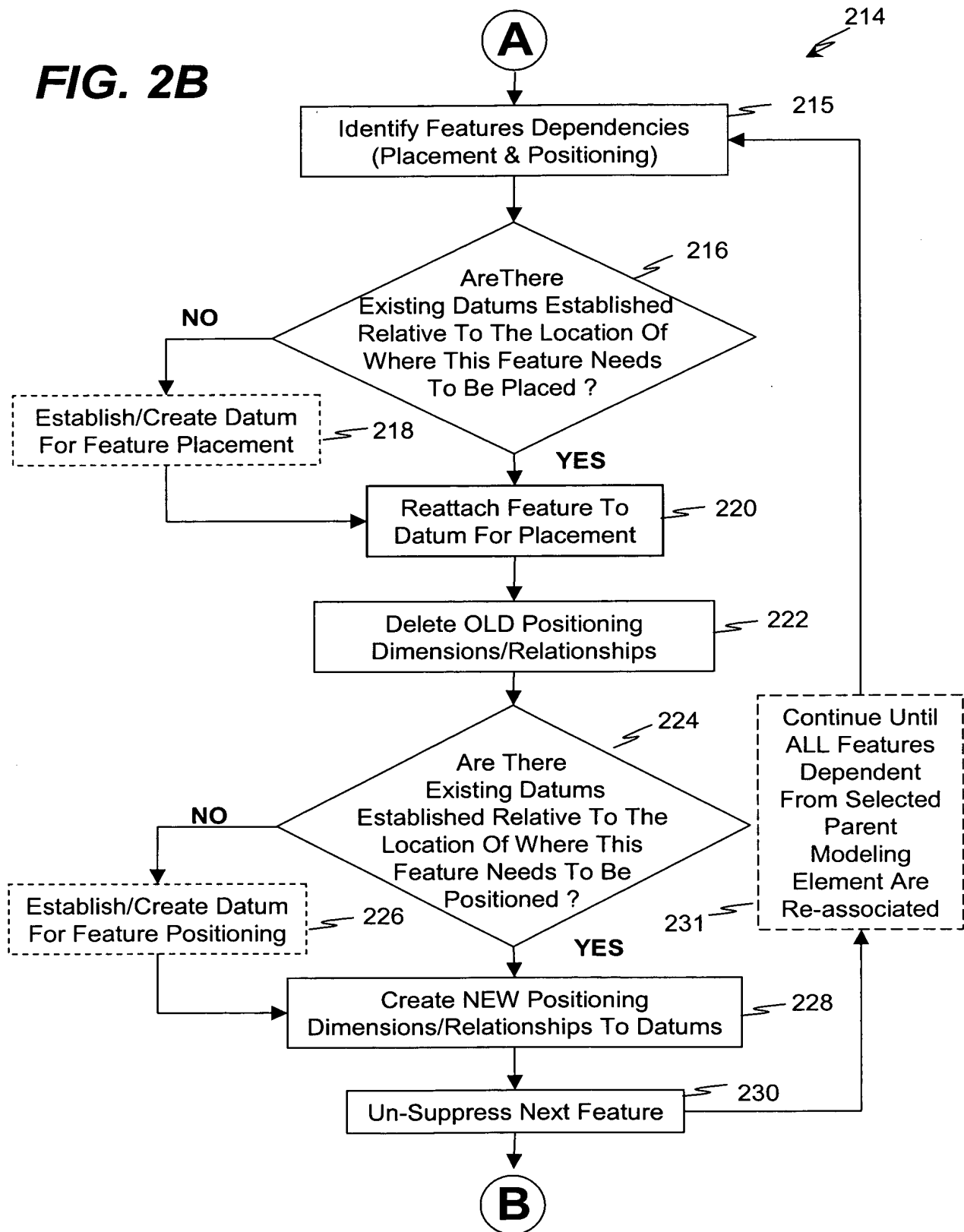
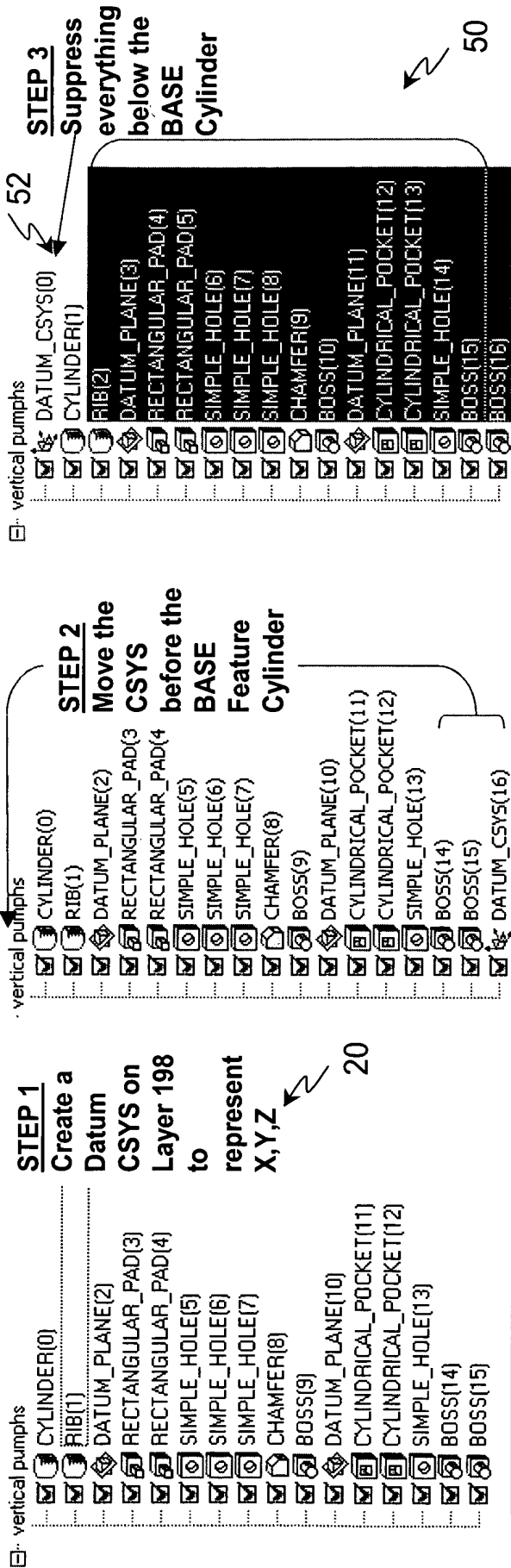
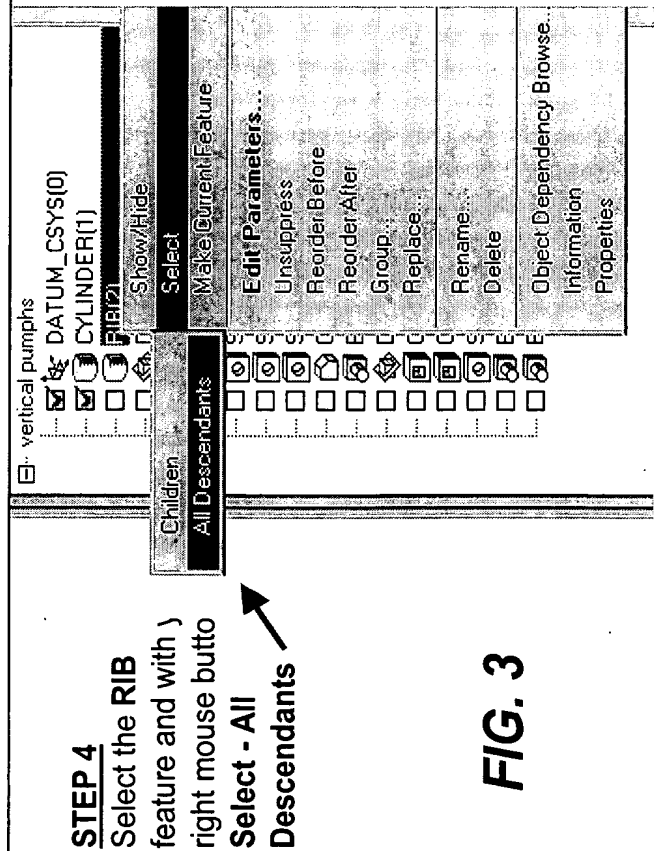


FIG. 2B





**Identify Feature Dependencies** NOTE: Features that are dependent on the existence of the RIB



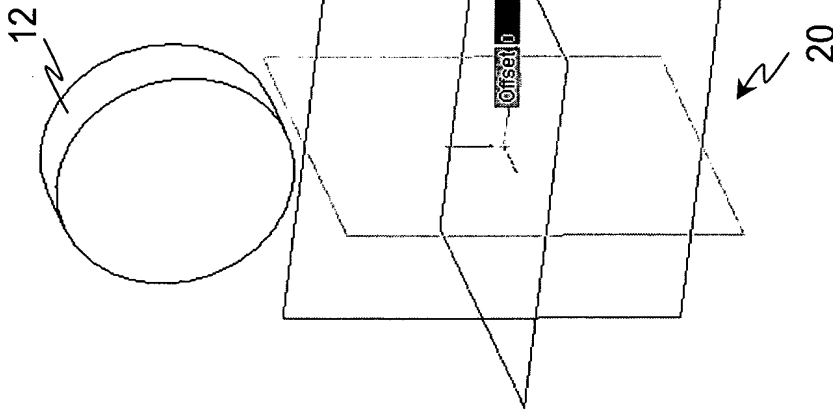
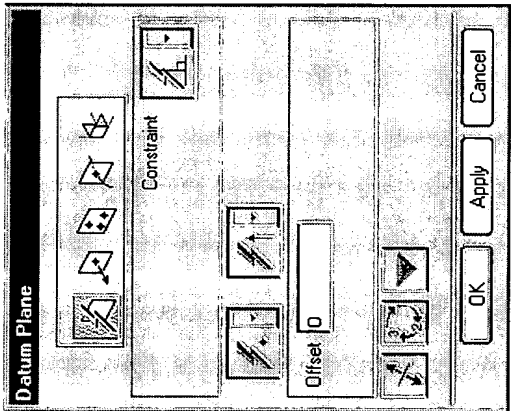
The RIB cannot be deleted at this time because of child & grandchild dependencies

Features dependent on the RIB

FIG. 3

Create 0, offset datum planes of each CSYS plane to give value to the established coordinate system. These new planes are used for placement and positioning.

Move the three new planes below the CSYS



- ☒ vertical pumps
- ☒ DATUM\_CSYS(0)
- ☒ DATUM\_PLANE(1)
- ☒ DATUM\_PLANE(2)
- ☒ DATUM\_PLANE(3)
- ☒ CYLINDER(4)
- ☒ RIB(5)
- ☐ DATUM\_PLANE(6)
- ☐ RECTANGULAR PAD(7)

- ☒ vertical pumps
- ☒ DATUM\_CSYS(0)
- ☒ CYLINDER(1)
- ☐ RIB(2)
- ☐ DATUM\_PLANE(3)
- ☐ RECTANGULAR\_PAD(4)
- ☐ RECTANGULAR\_PAD(5)
- ☐ SIMPLE\_HOLE(6)
- ☐ SIMPLE\_HOLE(7)
- ☐ SIMPLE\_HOLE(8)
- ☐ CHAMFER(9)
- ☐ BOSS(10)
- ☐ DATUM\_PLANE(11)
- ☐ CYLINDRICAL\_POCKET(12)
- ☐ CYLINDRICAL\_POCKET(13)
- ☐ SIMPLE\_HOLE(14)
- ☐ BOSS(15)
- ☐ BOSS(16)
- ☒ DATUM\_PLANE(17)
- ☒ DATUM\_PLANE(18)
- ☒ DATUM\_PLANE(19)

**Layer Settings**

Work

199

Range or Category

Category Filter \*

ALL  
CSYS\_PLANES  
MODEL  
OFFSET\_PLANES

Edit Category

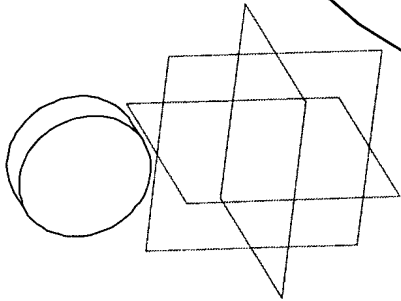
Information

Layer/Status/Count/Category

1	sel	1	MODEL
198		8	CSYS_PLAN
199	Wrk	3	OFFSET_PL

FIG. 4

**BEFORE**



**AFTER**

**Edit Parameters**

Diameter: 32

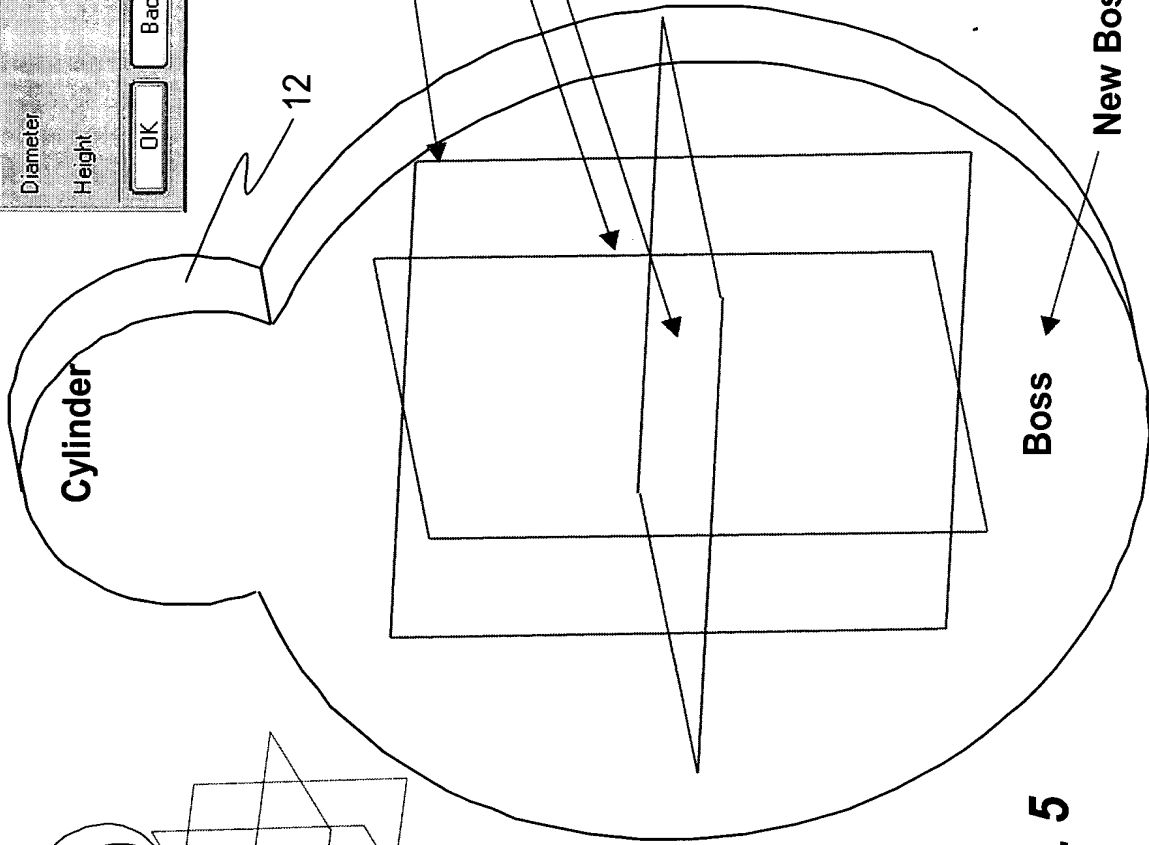
Height: 10

OK Back Cancel

Being that **ONLY** one Primitive should be used, **create a Boss** with the same parameters as the RIB to replace the RIB cylinder.

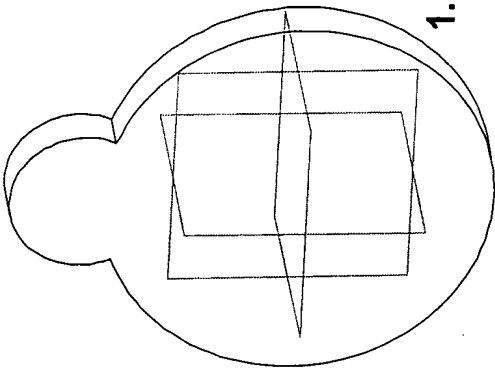
**Placement and positioning 0,0 to the datums**

**Place on datum (2)**  
**Position Perpendicular to datums (1 & 3) at 0, 0**



- ☒ vertical pumps
- ☒ DATUM\_CSYS(0)
- ☒ DATUM\_PLANE(1)
- ☒ DATUM\_PLANE(2)
- ☒ DATUM\_PLANE(3)
- ☒ CYLINDER(4)
- ☒ RIB(5)
- ☒ DATUM\_PLANE(6)
- ☒ RECTANGULAR\_PAD(7)
- ☒ RECTANGULAR\_PAD(8)
- ☒ SIMPLE\_HOLE(9)
- ☒ SIMPLE\_HOLE(10)
- ☒ SIMPLE\_HOLE(11)
- ☒ CHAMFER(12)
- ☒ BOSS(13)
- ☒ DATUM\_PLANE(14)
- ☒ CYLINDRICAL\_POCKET(15)
- ☒ CYLINDRICAL\_POCKET(16)
- ☒ SIMPLE\_HOLE(17)
- ☒ BOSS(18)
- ☒ BOSS(19)
- ☒ BOSS(20)

**FIG. 5**



1. Reorder Boss  
above the RIB

<input type="checkbox"/>	vertical pumps
<input checked="" type="checkbox"/>	DATUM_CSYS(0)
<input checked="" type="checkbox"/>	DATUM_PLANE(1)
<input checked="" type="checkbox"/>	DATUM_PLANE(2)
<input checked="" type="checkbox"/>	DATUM_PLANE(3)
<input checked="" type="checkbox"/>	CYLINDER(4)
<input checked="" type="checkbox"/>	BOSS(5)
<input type="checkbox"/>	RIB(6)
<input type="checkbox"/>	DATUM_PLANE(7)
<input type="checkbox"/>	RECTANGULAR_PAD(8)
<input type="checkbox"/>	RECTANGULAR_PAD(9)
<input type="checkbox"/>	SIMPLE_HOLE(10)
<input type="checkbox"/>	SIMPLE_HOLE(11)
<input type="checkbox"/>	SIMPLE_HOLE(12)
<input type="checkbox"/>	CHAMFER(13)
<input type="checkbox"/>	BOSS(14)
<input type="checkbox"/>	DATUM_PLANE(15)
<input type="checkbox"/>	CYLINDRICAL_POCKET(16)
<input type="checkbox"/>	CYLINDRICAL_POCKET(17)
<input type="checkbox"/>	SIMPLE_HOLE(18)
<input type="checkbox"/>	BOSS(19)
<input type="checkbox"/>	BOSS(20)

FIG. 6

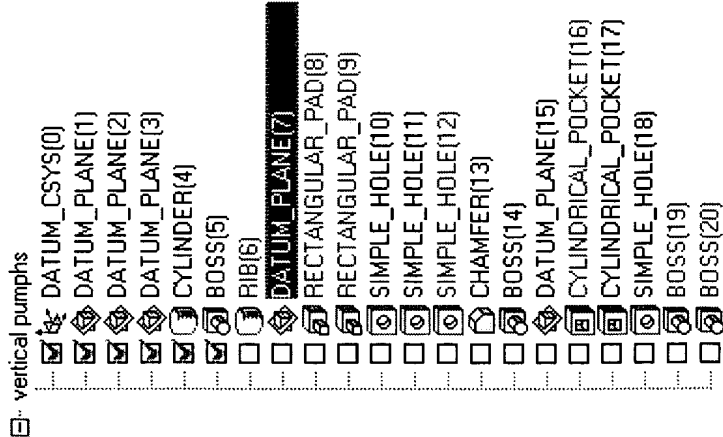
- The RIB cannot be deleted at this time because of dependencies
2. Confirm RIB dependencies:  
Select the RIB feature and with your right mouse button,  
Select - All Descendants
3. Reselect the RIB feature on the Model Navigator to see dependent features of the RIB

<input type="checkbox"/>	vertical pumps
<input checked="" type="checkbox"/>	DATUM_CSYS(0)
<input checked="" type="checkbox"/>	DATUM_PLANE(1)
<input checked="" type="checkbox"/>	DATUM_PLANE(2)
<input checked="" type="checkbox"/>	DATUM_PLANE(3)
<input checked="" type="checkbox"/>	CYLINDER(4)
<input checked="" type="checkbox"/>	BOSS(5)
<input checked="" type="checkbox"/>	RIB(6)
<input type="checkbox"/>	DATUM_PLANE(7)
<input type="checkbox"/>	RECTANGULAR_PAD(8)
<input type="checkbox"/>	RECTANGULAR_PAD(9)
<input type="checkbox"/>	SIMPLE_HOLE(10)
<input type="checkbox"/>	SIMPLE_HOLE(11)
<input type="checkbox"/>	SIMPLE_HOLE(12)
<input type="checkbox"/>	CHAMFER(13)
<input type="checkbox"/>	BOSS(14)
<input type="checkbox"/>	DATUM_PLANE(15)
<input type="checkbox"/>	CYLINDRICAL_POCKET(16)
<input type="checkbox"/>	CYLINDRICAL_POCKET(17)
<input type="checkbox"/>	SIMPLE_HOLE(18)
<input type="checkbox"/>	BOSS(19)
<input type="checkbox"/>	BOSS(20)

Features  
dependent  
on the RIB



Parent/Child Relationship



**NOTE:**

**Parent/Child**

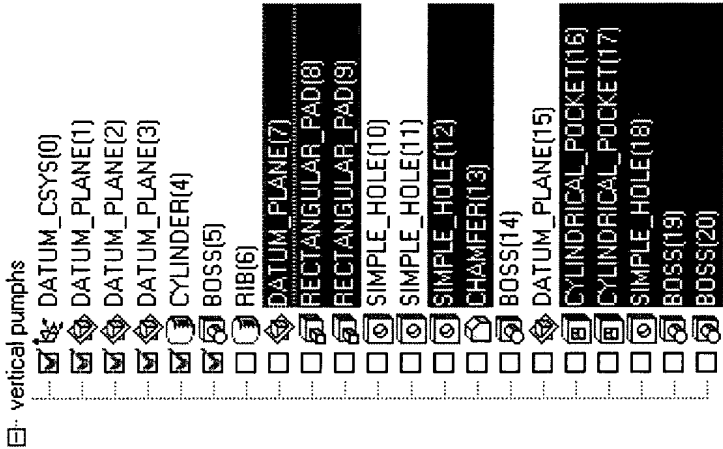
dependencies and the

**Positioning**

dependencies have to be checked.

**FIG. 7**

Select ALL Descendents



**OBSERVATION:**

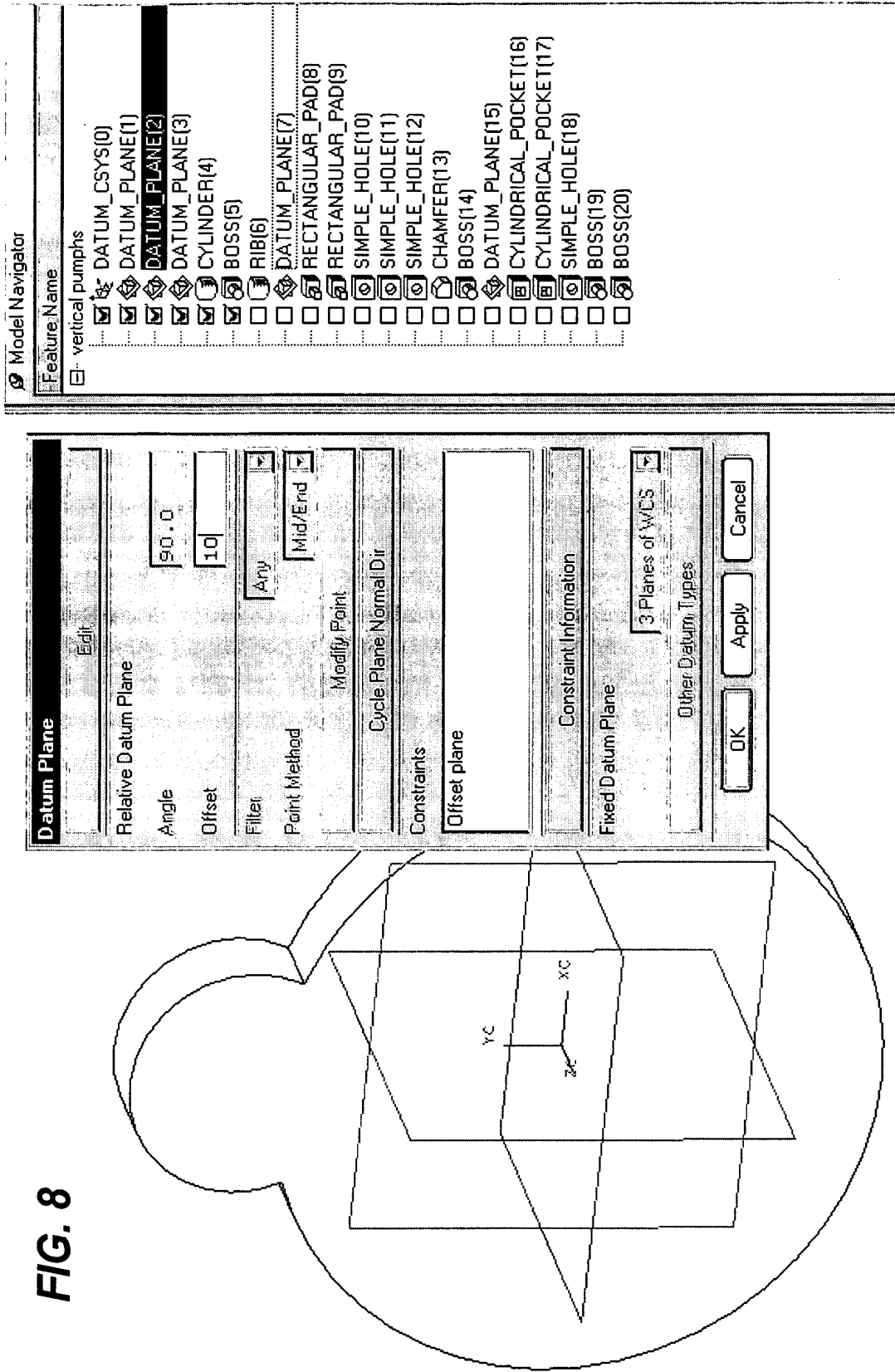
Datum Plane (7) has the parent of a FACE. The RIB is the parent (pink) and the children (blue) are highlighted.

**CONCLUSION:**

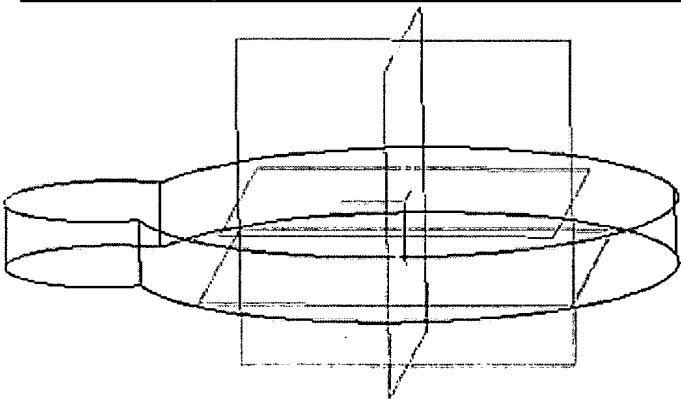
This datum was used for placement or positioning of the blue features

**LEGACY FEATURES ARE NOT DELETED UNTIL DEPENDENCIES ARE REMOVED**

FIG. 8



**Note:** Datum Plane (7) was created at a 0 offset from the face of the RIB face. An easy solution for converting this datum is to reattach Datum Plane (7) to Datum Plane (2) and offset it relative to the height of the NEW boss (5) which is 10mm



Datum Offset  
10mm from the  
XY plane

- ☒ vertical pumps
- ☒ DATUM\_CSYS(0)
- ☒ DATUM\_PLANE(1)
- ☒ DATUM\_PLANE(2)
- ☒ DATUM\_PLANE(3)
- ☒ CYLINDER(4)
- ☒ BOSS(5)
- ☐ RIB(6)
- ☒ DATUM\_PLANE(7)
- ☐ RECTANGULAR\_PAD(8)
- ☐ RECTANGULAR\_PAD(9)
- ☐ SIMPLE\_HOLE(10)
- ☐ SIMPLE\_HOLE(11)
- ☐ SIMPLE\_HOLE(12)
- ☐ CHAMFER(13)
- ☐ BOSS(14)
- ☐ DATUM\_PLANE(15)
- ☐ CYLINDRICAL\_POCKET(16)
- ☐ CYLINDRICAL\_POCKET(17)
- ☐ SIMPLE\_HOLE(18)
- ☐ BOSS(19)
- ☐ BOSS(20)

FIG. 9

Create an expression to make the offset of datum plane (7) = to the height of Boss (5)

Create an expression to make the height of cylinder (3) = the height of Boss (4)

**NOTE:**  
This keeps the plane relative to the cylinder face if the cylinder height changes.

**Expressions:**  
p10=10 (cylinder (4) height)  
p11=Positioning Dimension Offset value of Datum (7)  
p137 Height of Boss (5)

**Datum & Boss**  
Expression: p11=p10

**Cylinder & Boss**  
Expression: p137=p10

Expressions

List by: Name

Filter: \*

Filter Action: Include

Save Current Filter

p0=82  
p1=10  
p9=31  
p10=10  
p11=p10  
p12=96  
p13=16  
p14=33  
p15=1  
p16=0  
p17=0  
p18=0  
p19=18  
p20=90

p11=p10

Value = 10

OK Apply Cancel

Rectangular Pad (8 & 9) ACTION:

OBSERVATION:

Datum Plane (7) is the Parent of Rectangular Pad (8 & 9)

Edge – RIB (6) and Datum Plane (7) are used for placement and positioning the Rectangular Pad. The Body is the Pad attaching to the solid.

Un-suppress Rectangular Pad (8) – There are parent child dependency problems that won't allow this to be performed.

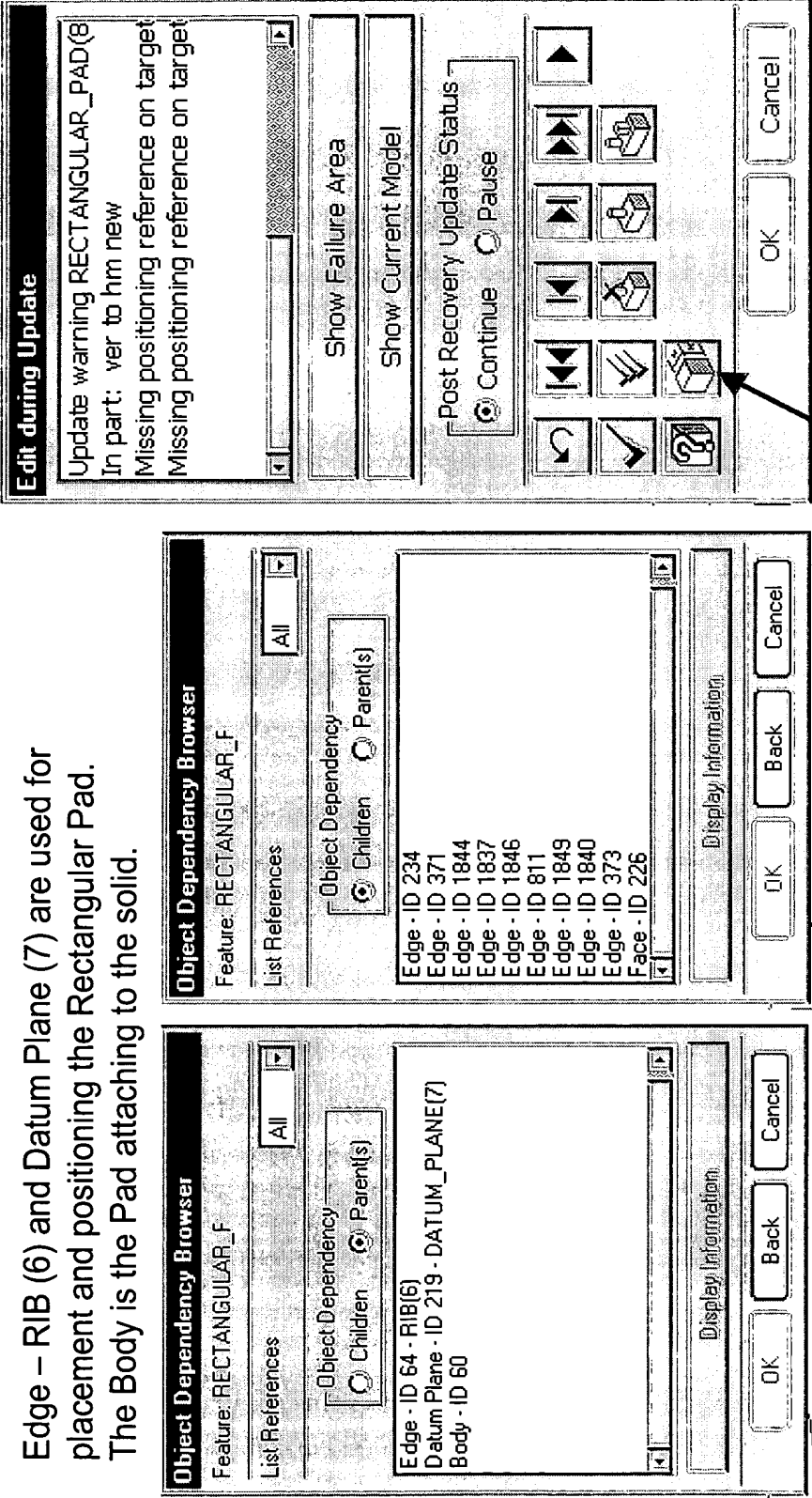


FIG. 10

The Rectangular Pad needs to be re-attached – Edit Rectangular Pad (8) -Reattach



# Create New Positioning Dimensions Perpendicular to the Offset Datums (1 & 3) referenced above

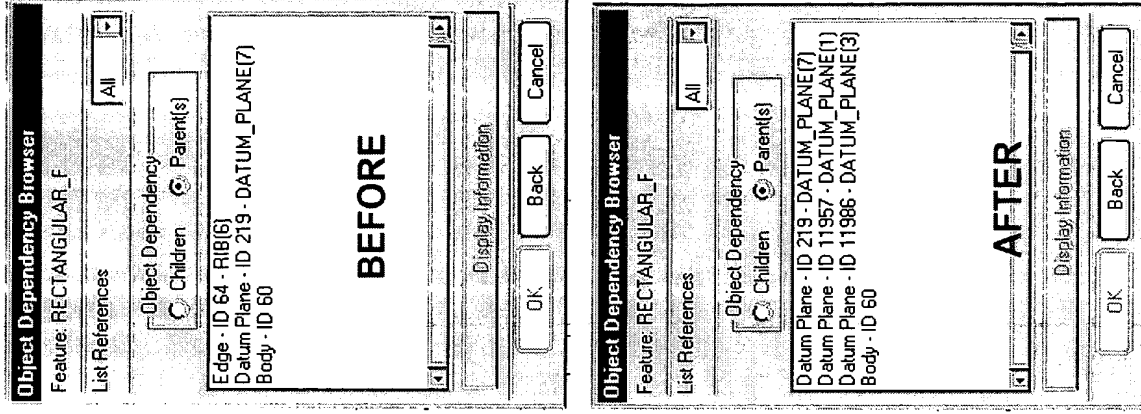
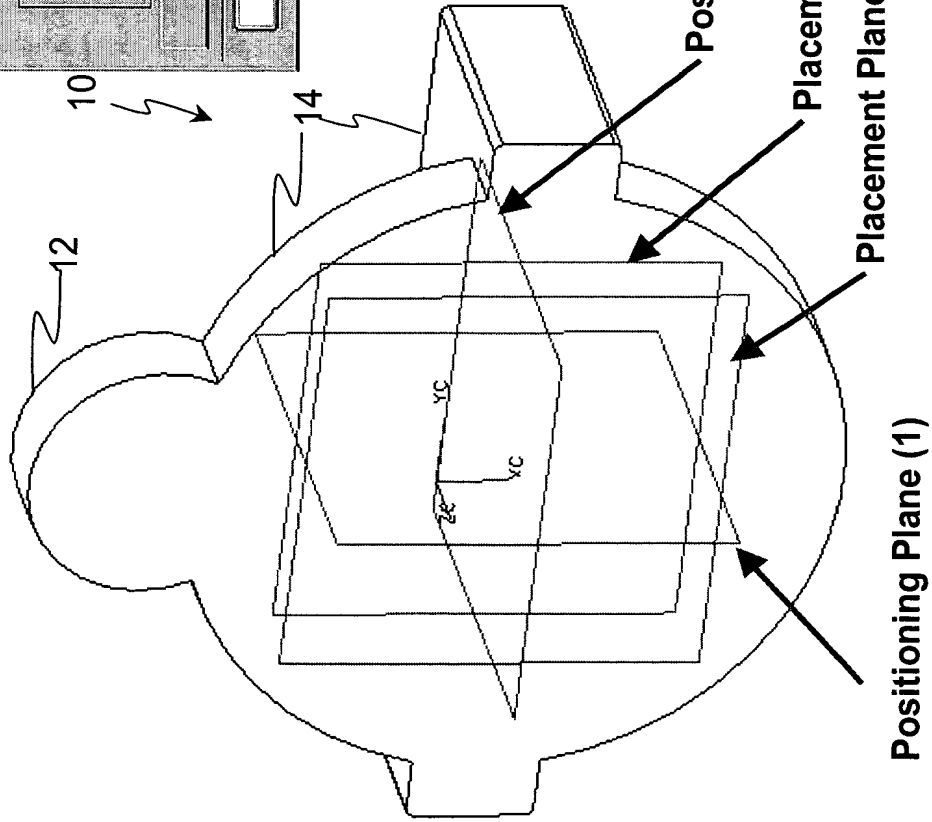
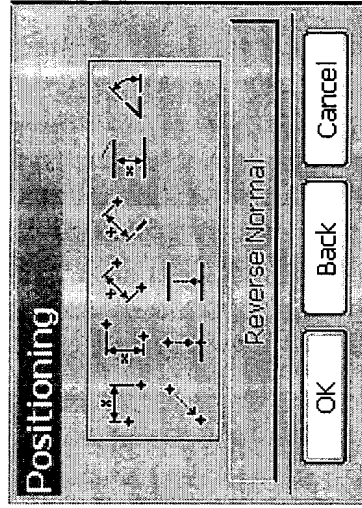
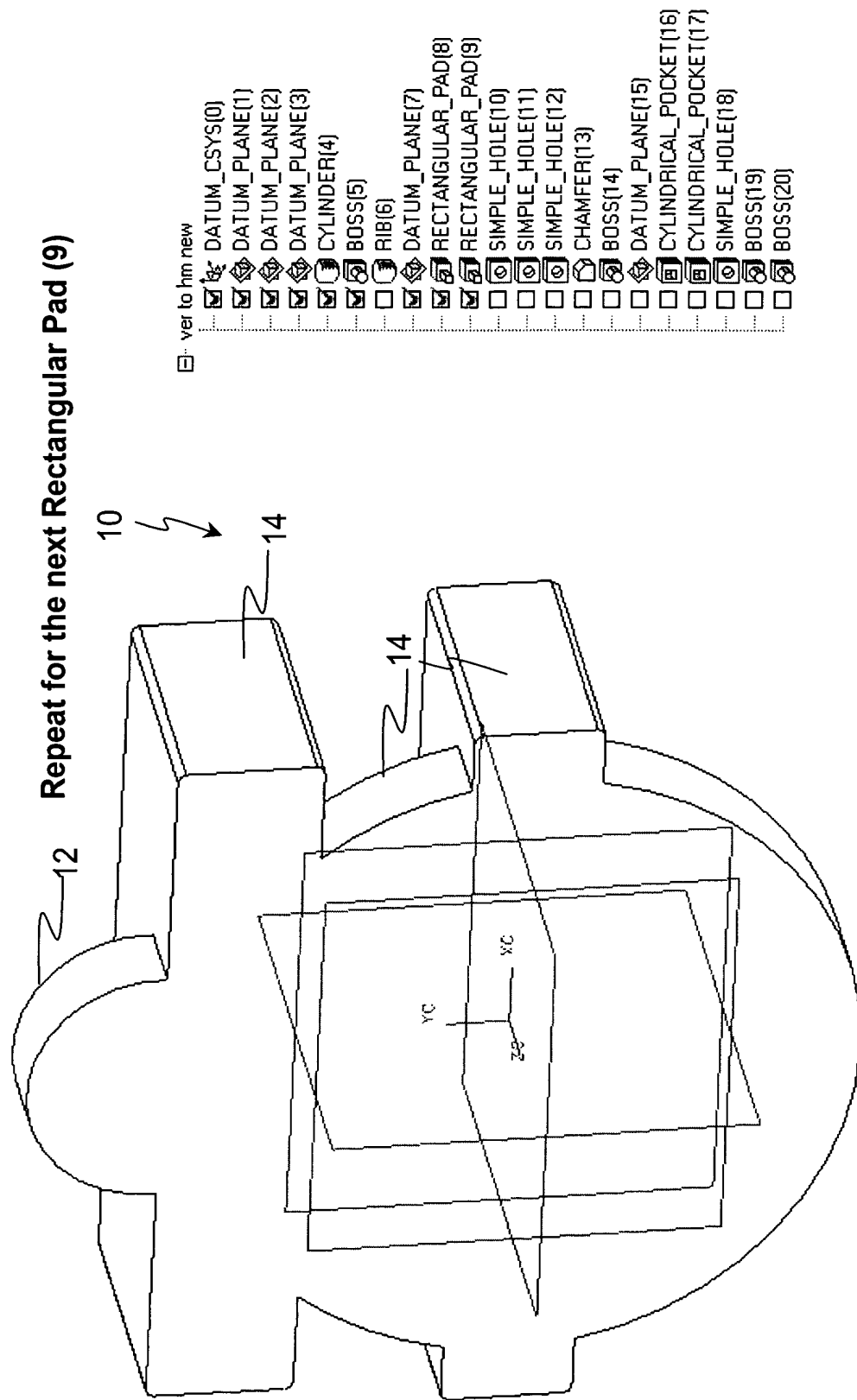


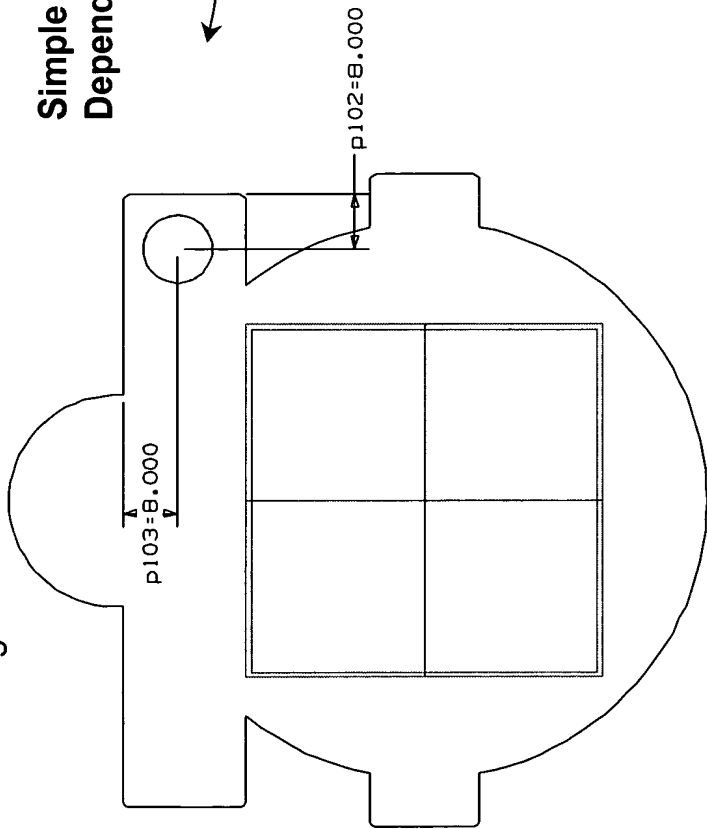
FIG. 12



**FIG. 13**

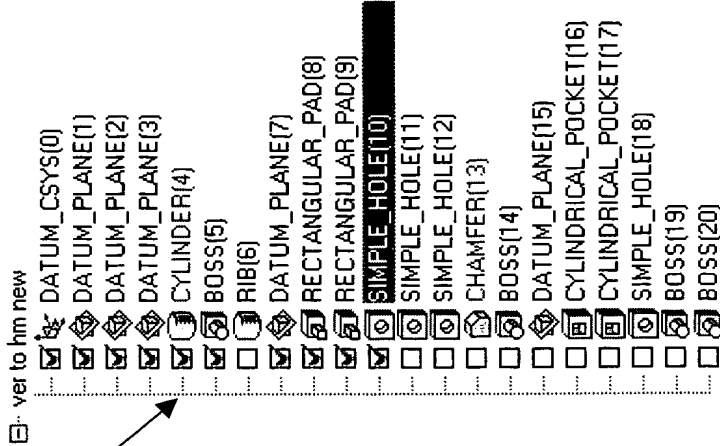
Reattach and Reposition  
Simple Holes

Old Positioning Dimensions for Simple Hole (10)  
Referenced to edges



Simple Hole (10) is  
Dependent on Cylinder (4)

10



Un-suppress the Simple Hole (10) - Edit Parameters

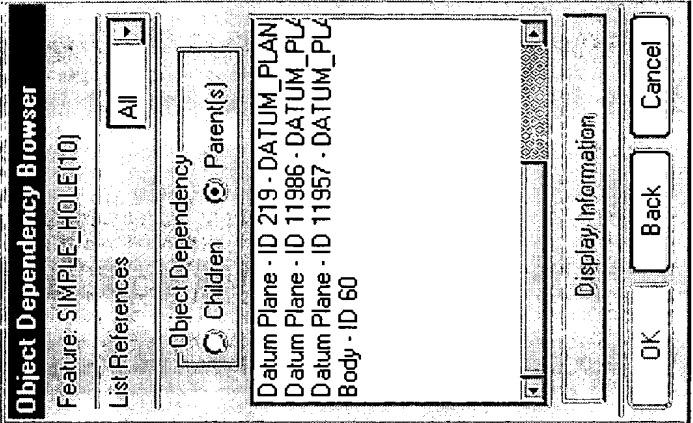
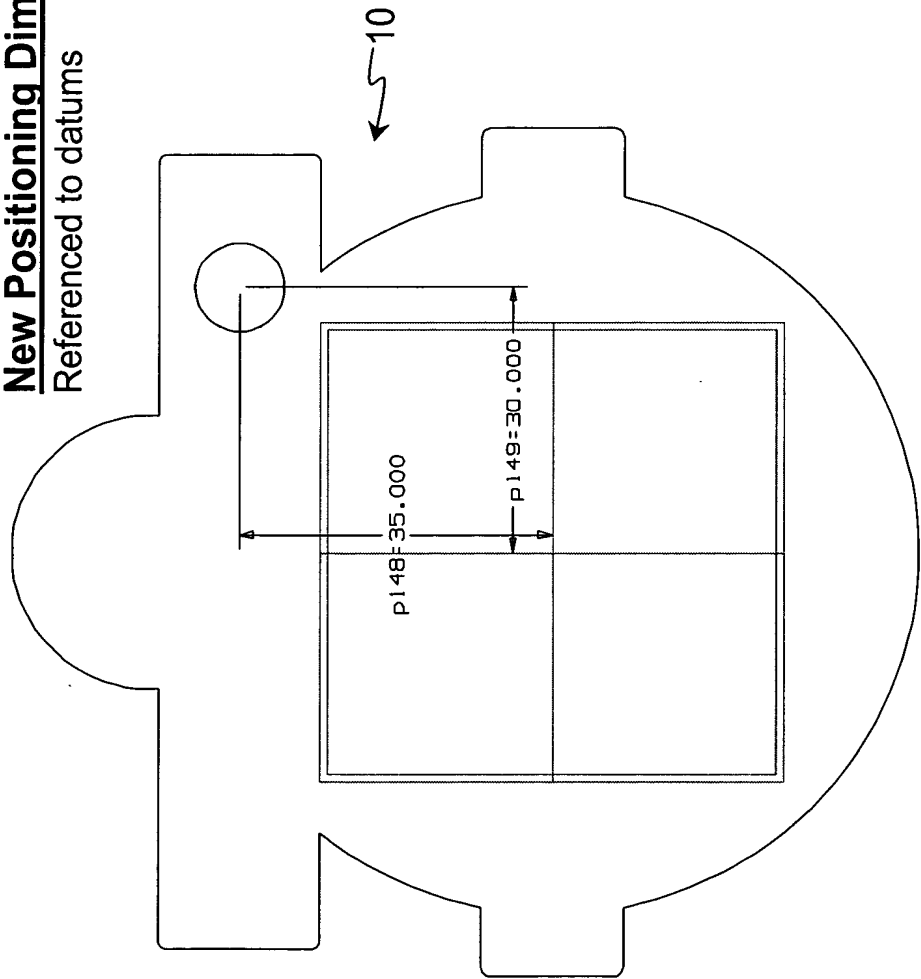
Reattach to the New Datum Plane (3) for placement. Specify the  
origin as 0,0, 0

Delete ALL OLD Positioning Dimensions

FIG. 14



**New Positioning Dimensions for Simple Hole (10)**  
Referenced to datums

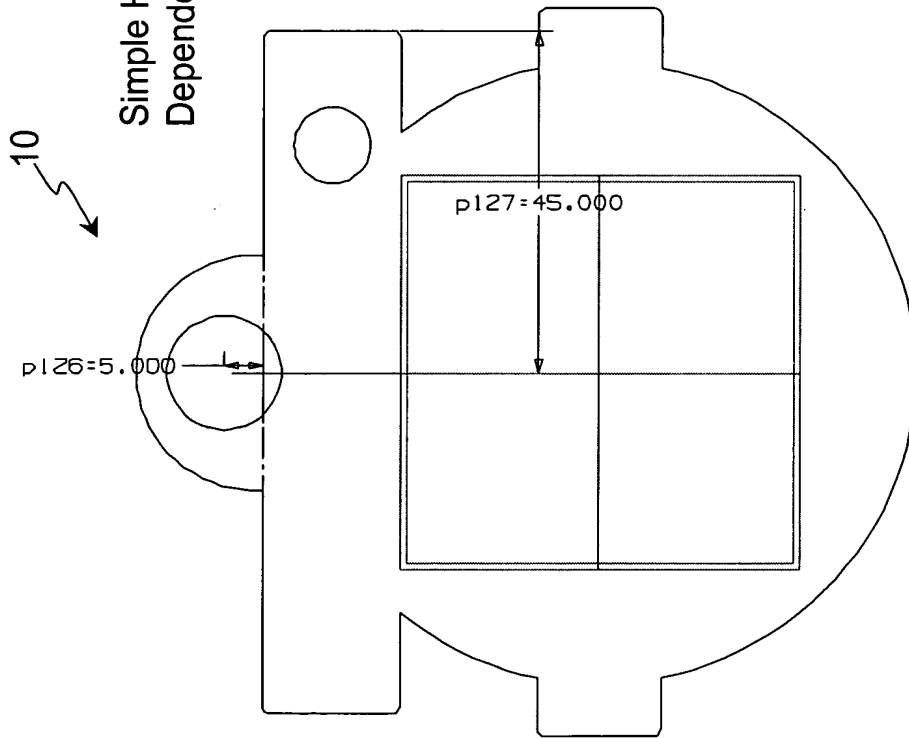


Create New Positioning Dimensions to datum planes (1 & 3)  
Continue Conversion Process to the two other simple holes

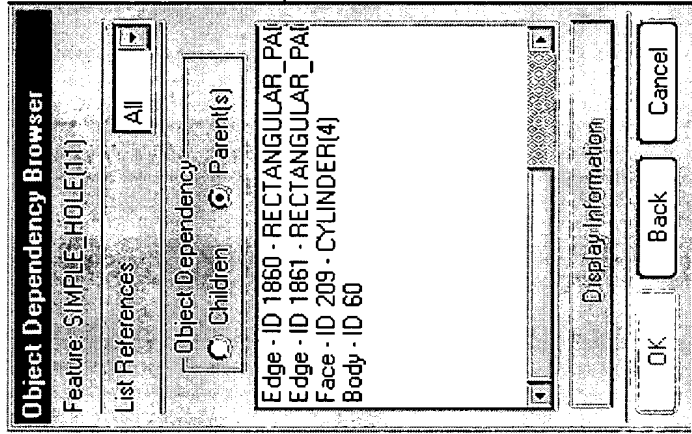
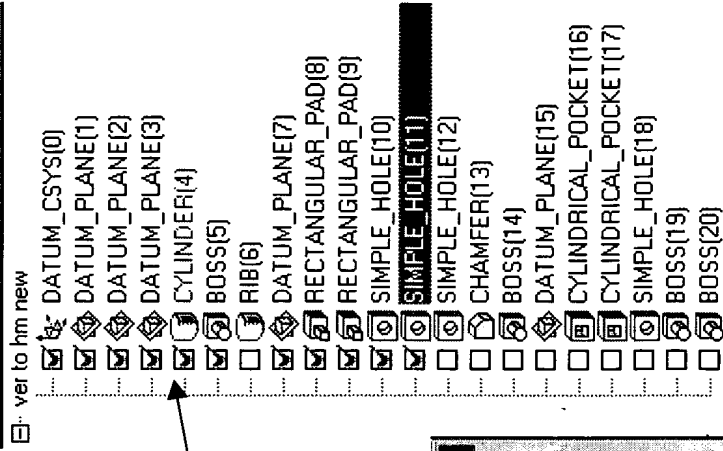
**FIG. 15**

**Old Positioning Dimensions for Simple Hole (11)**

Referenced to edges

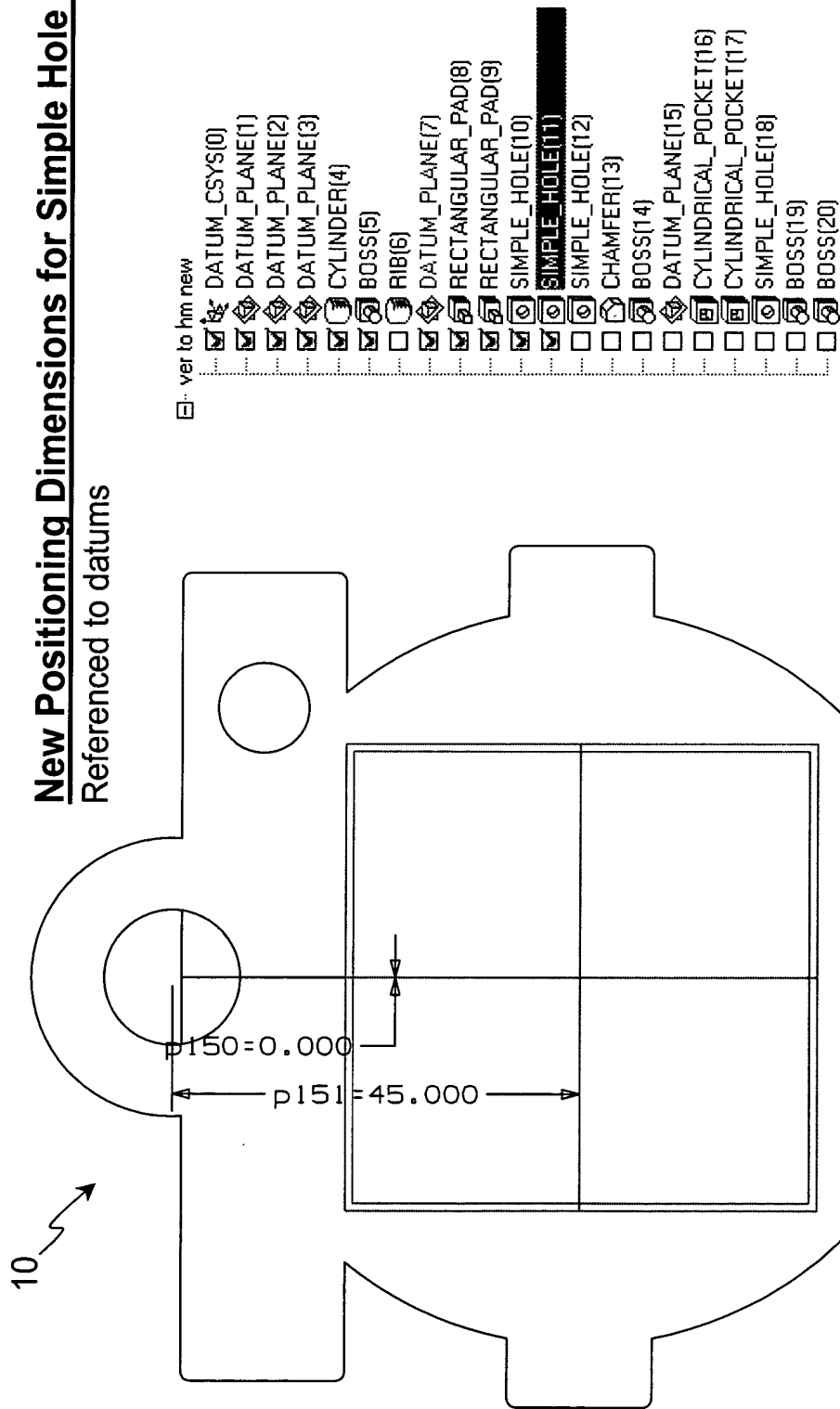


Simple Hole (11) is  
Dependent on Cylinder (4)



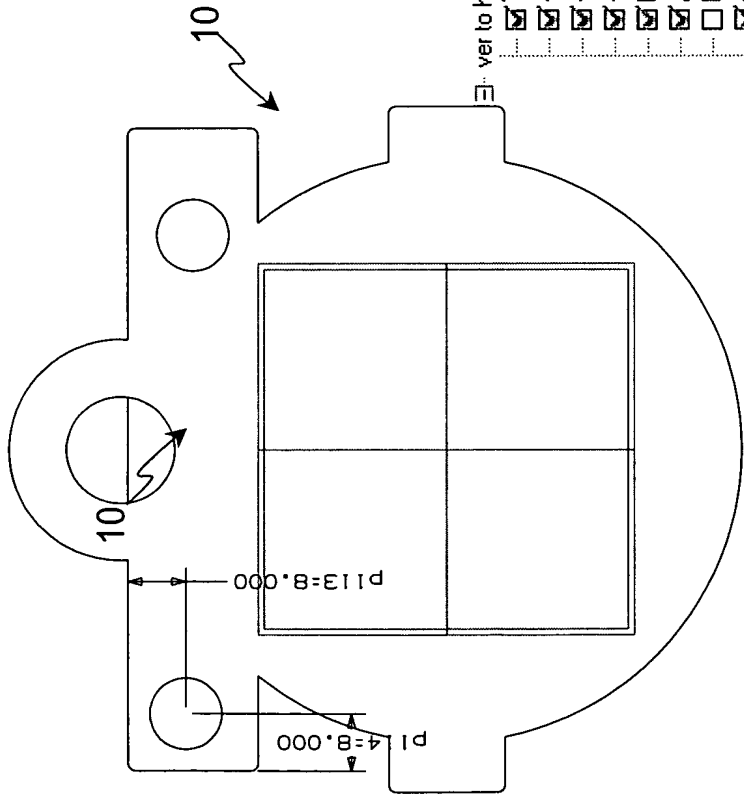
**FIG. 16**

**New Positioning Dimensions for Simple Hole (11)**  
Referenced to datums

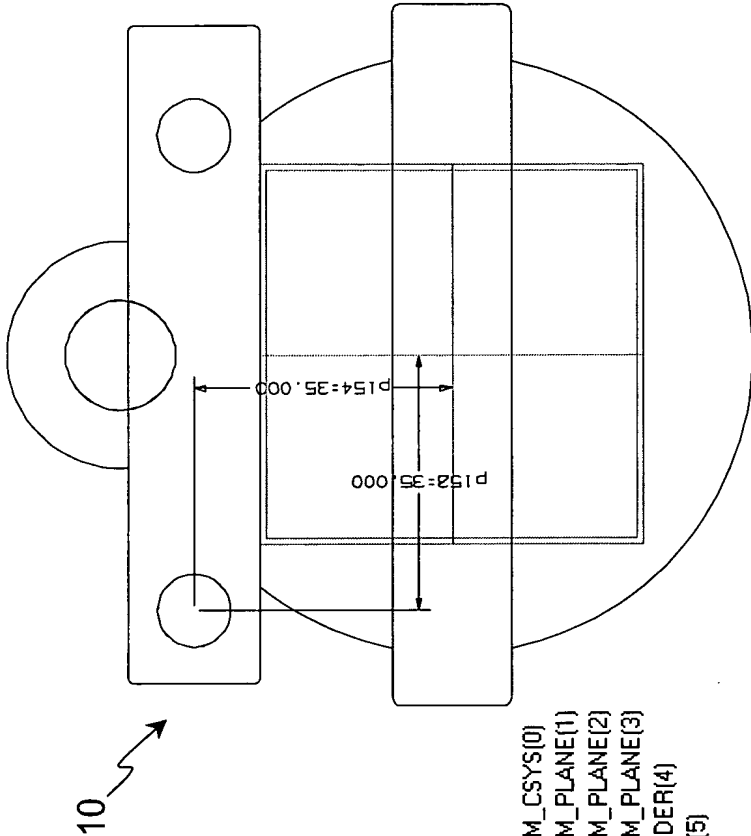


**FIG. 17**

Old Positioning Referenced to edges



New Positioning Referenced Datums (1 & b 3)



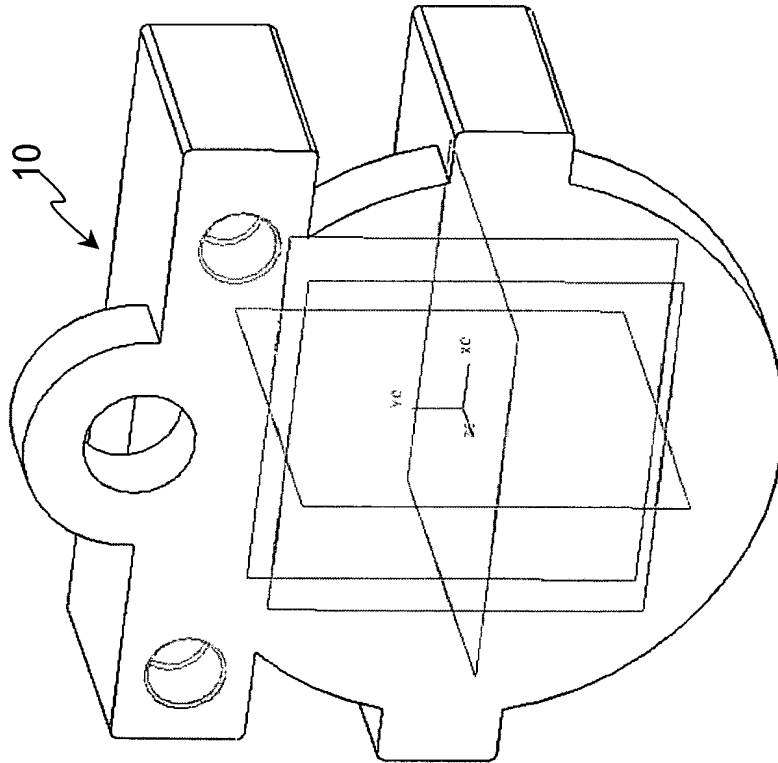
ver to him new

- ☒ DATUM\_CSYS(0)
- ☒ DATUM\_PLANE(1)
- ☒ DATUM\_PLANE(2)
- ☒ DATUM\_PLANE(3)
- ☒ CYLINDER(4)
- ☒ BOSS(5)
- ☐ RIB(6)
- ☒ DATUM\_PLANE(7)
- ☒ RECTANGULAR\_PAD(8)
- ☒ RECTANGULAR\_PAD(9)
- ☒ SIMPLE\_HOLE(10)
- ☒ SIMPLE\_HOLE(11)
- ☒ **SIMPLE\_HOLE(12)**
- ☐ CHAMFER(13)
- ☐ BOSS(14)
- ☐ DATUM\_PLANE(15)
- ☐ CYLINDRICAL\_POCKET(16)
- ☐ CYLINDRICAL\_POCKET(17)
- ☐ SIMPLE\_HOLE(18)
- ☐ BOSS(19)
- ☐ BOSS(20)

This placement of this Hole is good,  
but the positioning is not

Simple Hole (12) is Dependent on  
Datum Plane (7)

FIG. 18



### Before

<input checked="" type="checkbox"/>	DATUM_CSYS(0)
<input checked="" type="checkbox"/>	DATUM_PLANE(1)
<input checked="" type="checkbox"/>	DATUM_PLANE(2)
<input checked="" type="checkbox"/>	DATUM_PLANE(3)
<input checked="" type="checkbox"/>	CYLINDER(4)
<input checked="" type="checkbox"/>	BOSS(5)
<input checked="" type="checkbox"/>	RIB(6)
<input checked="" type="checkbox"/>	DATUM_PLANE(7)
<input checked="" type="checkbox"/>	RECTANGULAR_PAD(8)
<input checked="" type="checkbox"/>	RECTANGULAR_PAD(9)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(10)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(11)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(12)
<input checked="" type="checkbox"/>	CHAMFER(13)
<input checked="" type="checkbox"/>	BOSS(14)
<input checked="" type="checkbox"/>	DATUM_PLANE(15)
<input checked="" type="checkbox"/>	CYLINDRICAL_POCKET(16)
<input checked="" type="checkbox"/>	CYLINDRICAL_POCKET(17)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(18)
<input checked="" type="checkbox"/>	BOSS(19)
<input checked="" type="checkbox"/>	BOSS(20)

### After

<input checked="" type="checkbox"/>	DATUM_CSYS(0)
<input checked="" type="checkbox"/>	DATUM_PLANE(1)
<input checked="" type="checkbox"/>	DATUM_PLANE(2)
<input checked="" type="checkbox"/>	DATUM_PLANE(3)
<input checked="" type="checkbox"/>	CYLINDER(4)
<input checked="" type="checkbox"/>	BOSS(5)
<input checked="" type="checkbox"/>	RIB(6)
<input checked="" type="checkbox"/>	DATUM_PLANE(7)
<input checked="" type="checkbox"/>	RECTANGULAR_PAD(8)
<input checked="" type="checkbox"/>	RECTANGULAR_PAD(9)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(10)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(11)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(12)
<input checked="" type="checkbox"/>	BOSS(13)
<input checked="" type="checkbox"/>	DATUM_PLANE(14)
<input checked="" type="checkbox"/>	CYLINDRICAL_POCKET(15)
<input checked="" type="checkbox"/>	CYLINDRICAL_POCKET(16)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(17)
<input checked="" type="checkbox"/>	BOSS(18)
<input checked="" type="checkbox"/>	BOSS(19)
<input checked="" type="checkbox"/>	CHAMFER(20)

**Best Practice: Reorder Chamfers and Blends**  
to the end of the list

**Note:** If chamfers are tied on existing edges, they won't have problems being reordered. If the chamfer was placed on an edge that no longer exists, the location will have to be redefined.

**FIG. 19**

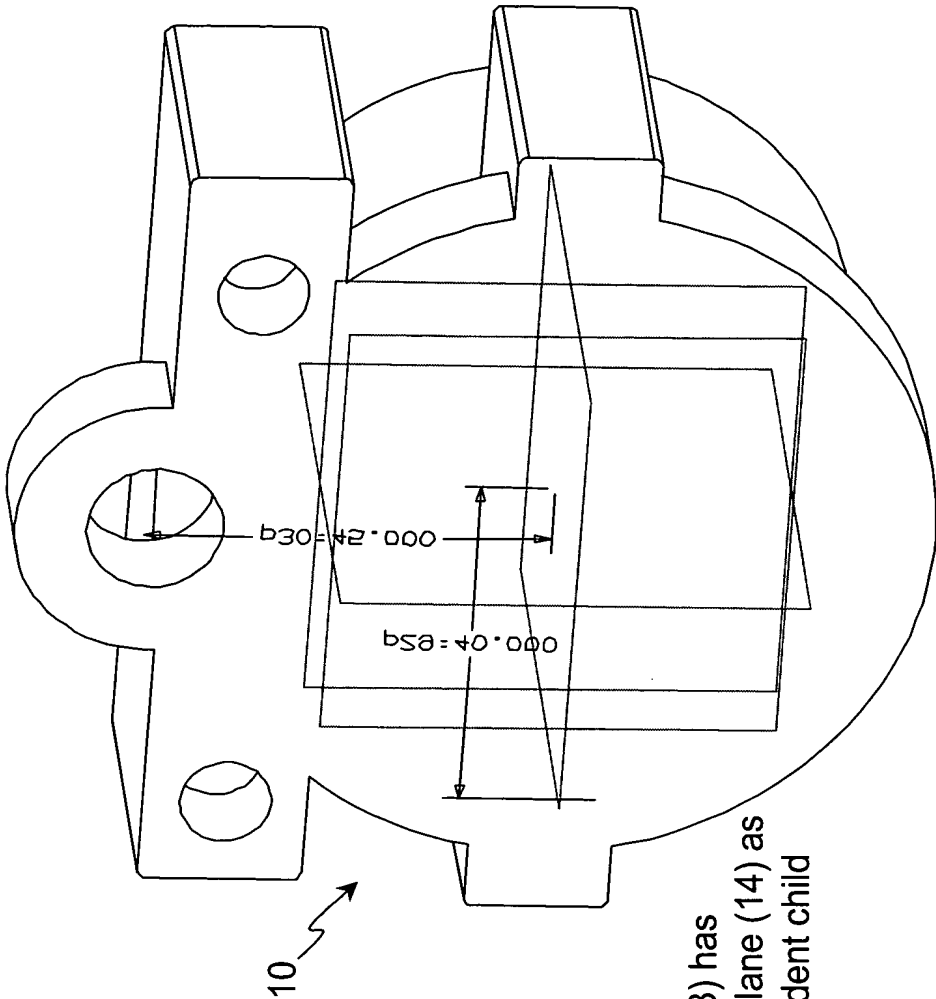
# Boss (13)

## Reattach and Reposition

<input type="checkbox"/>	ver to hm new
<input checked="" type="checkbox"/>	DATUM_CSYS(0)
<input checked="" type="checkbox"/>	DATUM_PLANE(1)
<input checked="" type="checkbox"/>	DATUM_PLANE(2)
<input checked="" type="checkbox"/>	DATUM_PLANE(3)
<input checked="" type="checkbox"/>	CYLINDER(4)
<input checked="" type="checkbox"/>	BOSS(5)
<input type="checkbox"/>	RIB(6)
<input checked="" type="checkbox"/>	DATUM_PLANE(7)
<input checked="" type="checkbox"/>	RECTANGULAR_PAD(8)
<input checked="" type="checkbox"/>	RECTANGULAR_PAD(9)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(10)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(11)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(12)
<input checked="" type="checkbox"/>	<b>BOSS(13)</b>
<input type="checkbox"/>	DATUM_PLANE(14)
<input type="checkbox"/>	CYLINDRICAL_POCKET(15)
<input type="checkbox"/>	CYLINDRICAL_POCKET(16)
<input type="checkbox"/>	SIMPLE_HOLE(17)
<input type="checkbox"/>	BOSS(18)
<input type="checkbox"/>	BOSS(19)
<input checked="" type="checkbox"/>	CHAMFER(20)

**NOTE:**

Boss (13) has datum Plane (14) as a dependent child feature



Re-attach Boss(13) to Datum Plane (2), delete positioning dimensions, and specify the arc center of the boss (13) as the origin

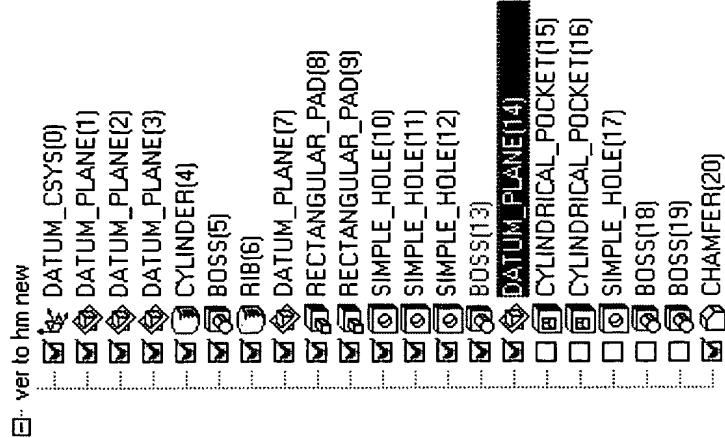
FIG. 20

# Un-Suppress Datum (14)

Delete

This feature is ONLY dependent on Boss (13) and has no children – it can be deleted

Before



After

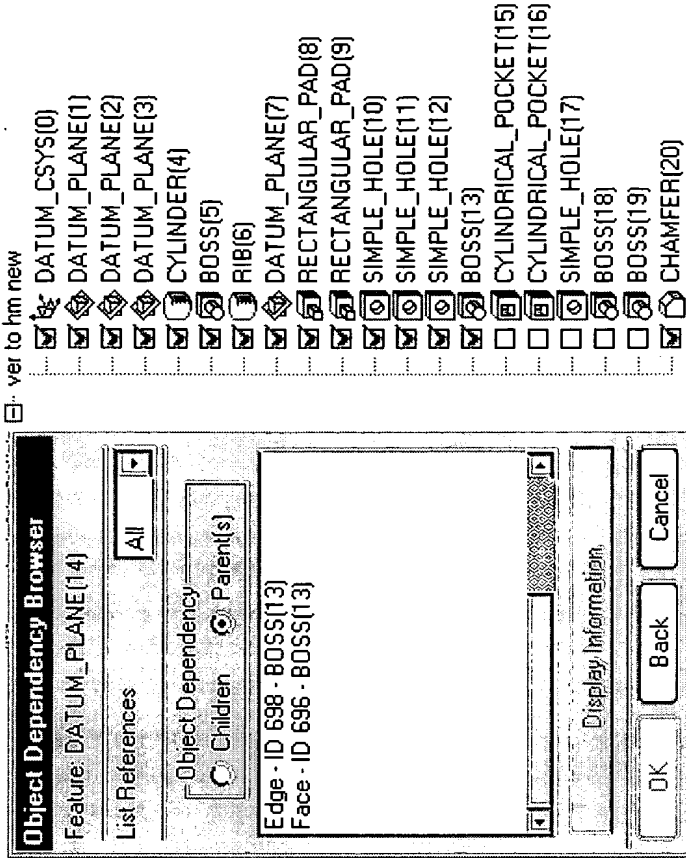
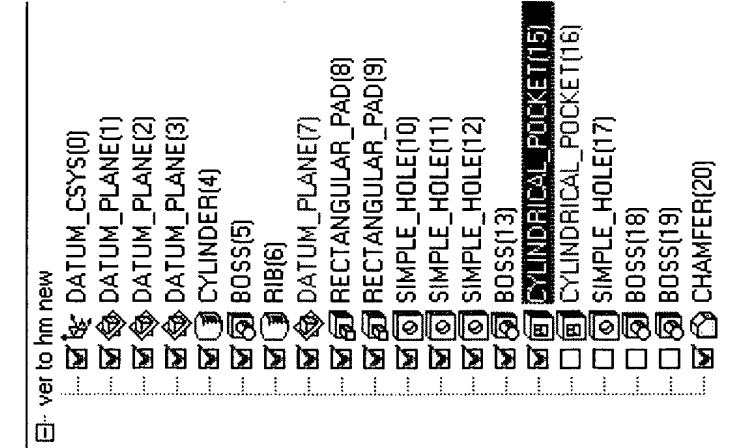


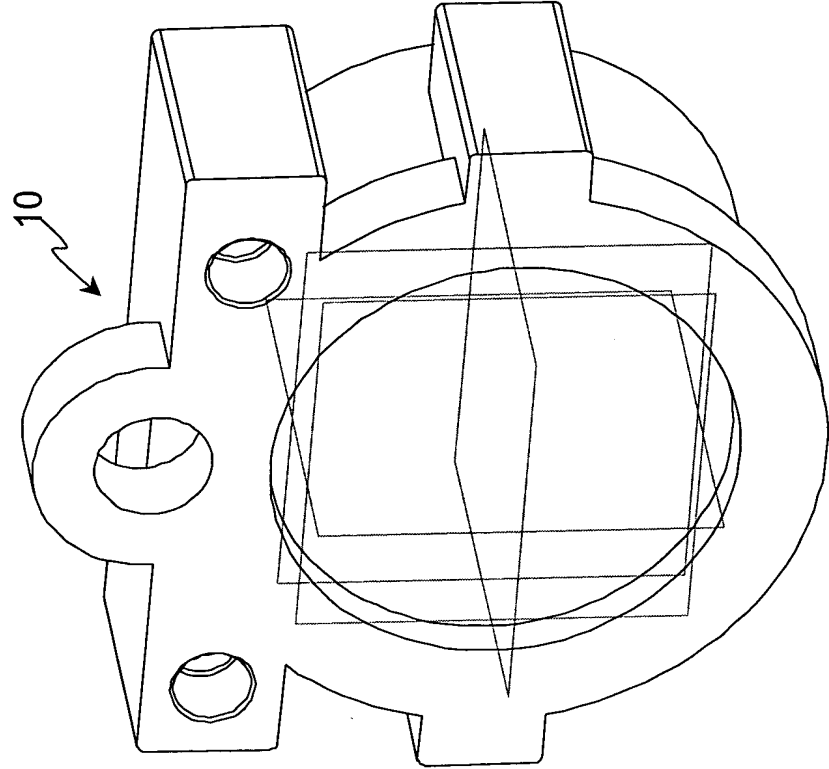
FIG. 21

# Un-Suppress Cylindrical Pocket (15)

Reposition



Before



This feature is already on Datum (7) for its placement, but it has Cylindrical Pocket (16) as a child. Delete the old positioning dimensions and create new ones that are referenced to datums (1 & 3)

FIG. 22



# Cylindrical Pocket (15)

Reposition

Before

10

After

10

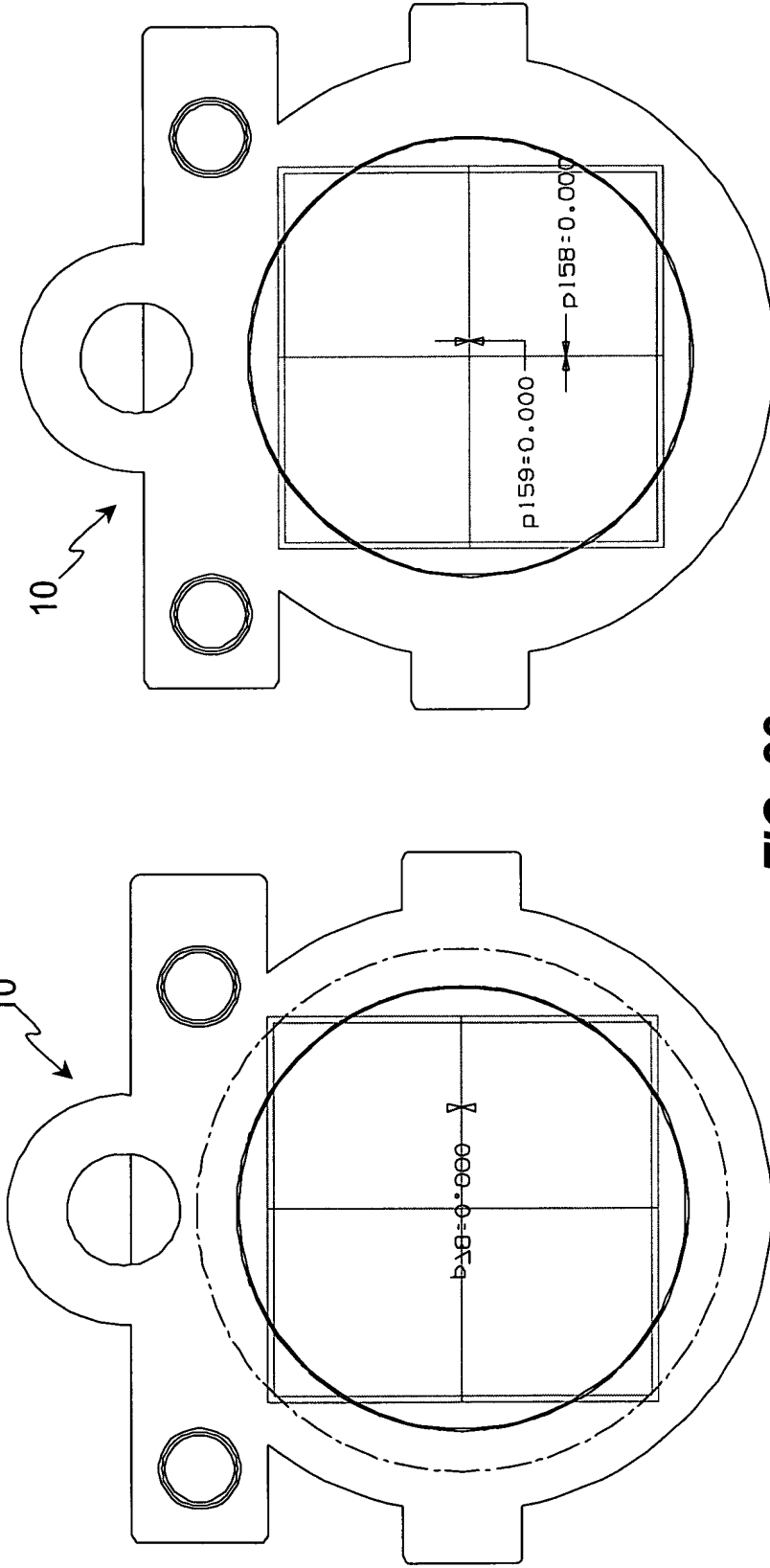
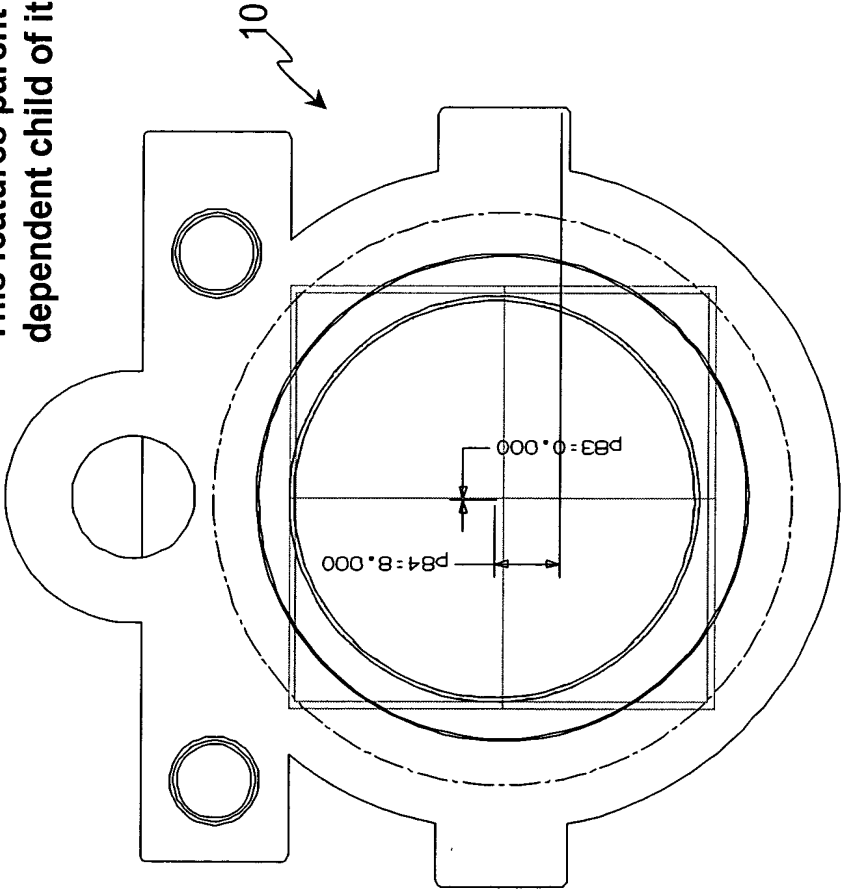


FIG. 23

**Cylindrical Pocket (16)**  
Reattach & Reposition

This features parent is Pocket (15) and Simple Hole (17) is a dependent child of it



<input checked="" type="checkbox"/>	ver to hm new
<input checked="" type="checkbox"/>	DATUM_CSYS(0)
<input checked="" type="checkbox"/>	DATUM_PLANE(1)
<input checked="" type="checkbox"/>	DATUM_PLANE(2)
<input checked="" type="checkbox"/>	DATUM_PLANE(3)
<input checked="" type="checkbox"/>	CYLINDER(4)
<input checked="" type="checkbox"/>	BOSS(5)
<input checked="" type="checkbox"/>	RIB(6)
<input checked="" type="checkbox"/>	DATUM_PLANE(7)
<input checked="" type="checkbox"/>	RECTANGULAR_PAD(8)
<input checked="" type="checkbox"/>	RECTANGULAR_PAD(9)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(10)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(11)
<input checked="" type="checkbox"/>	SIMPLE_HOLE(12)
<input checked="" type="checkbox"/>	BOSS(13)
<input checked="" type="checkbox"/>	CYLINDRICAL_POCKET(15)
<input checked="" type="checkbox"/>	<b>CYLINDRICAL_POCKET(16)</b>
<input type="checkbox"/>	SIMPLE_HOLE(17)
<input type="checkbox"/>	BOSS(18)
<input type="checkbox"/>	BOSS(19)
<input checked="" type="checkbox"/>	CHAMFER(20)

Positioning Dimensions Before

FIG. 24

# Cylindrical Pocket (16) Reattach & Reposition

The distance between the face and the starting point of this feature is 5mm. This has to be compensated for when repositioning this feature on datum (7)

An alternate solution would be to offset a new plane relative to the starting point and use the new plane for placement.

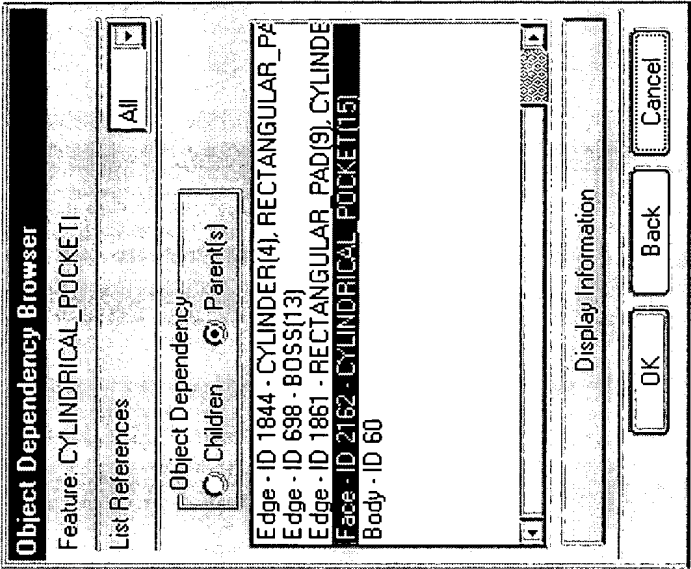
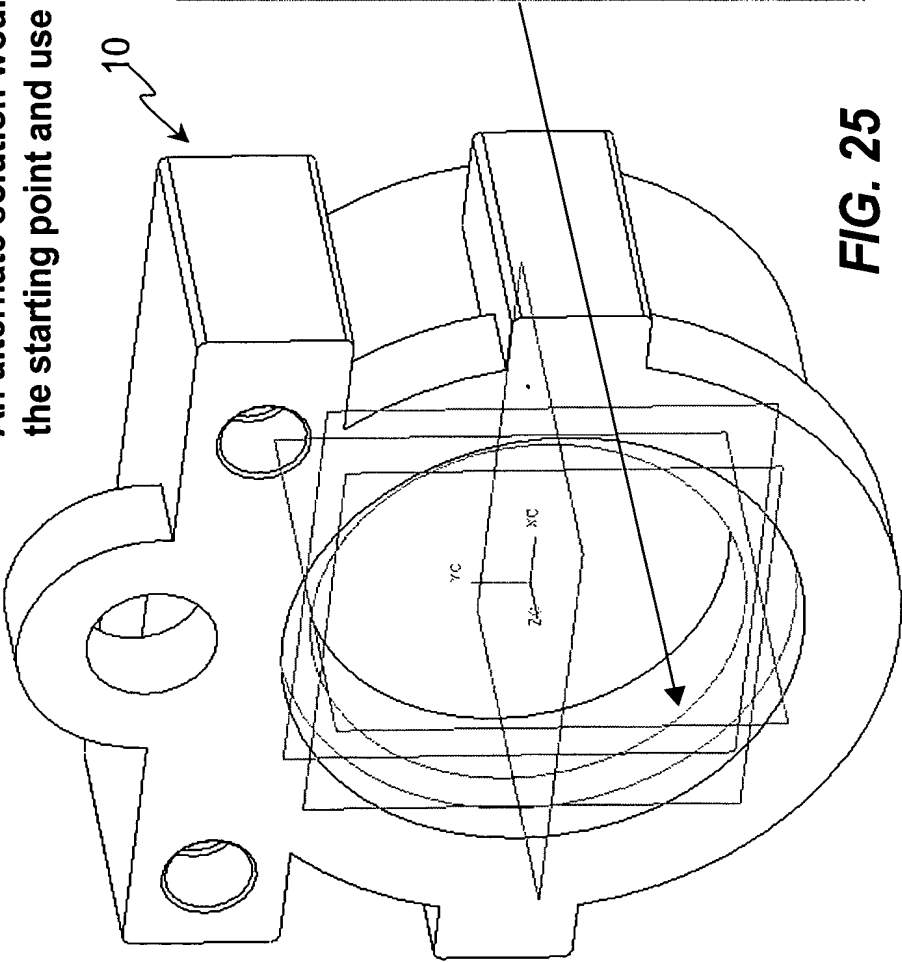
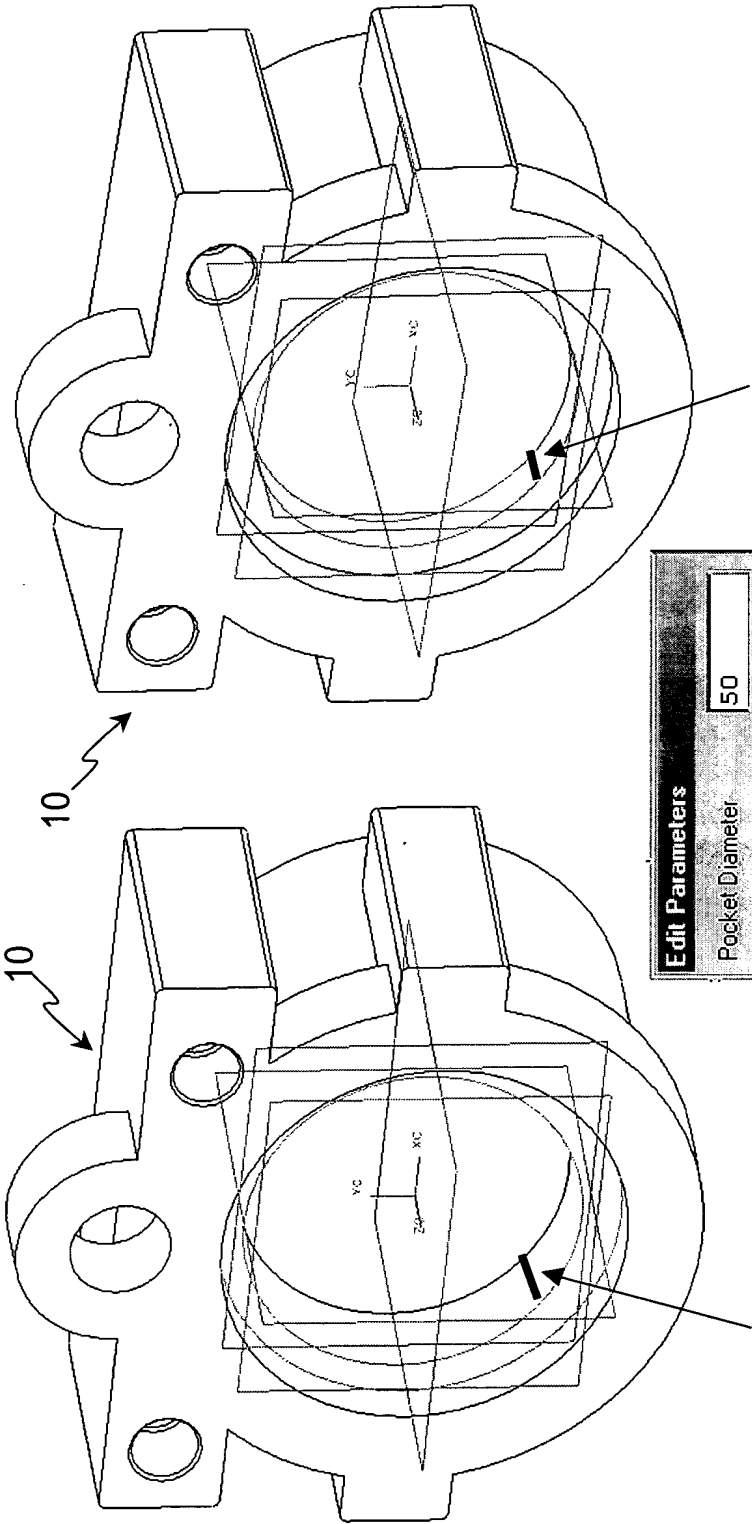


FIG. 25

Edit Depth Parameter on Cylindrical Pocket (16)



**Edit Parameters**

Pocket Diameter	50
Depth	10
Floor Radius	0
Taper Angle	3

OK Back Cancel

After Reposition - Depth Loses 5mm

FIG. 26

Edit Depth Parameter on Cylindrical Pocket (16)

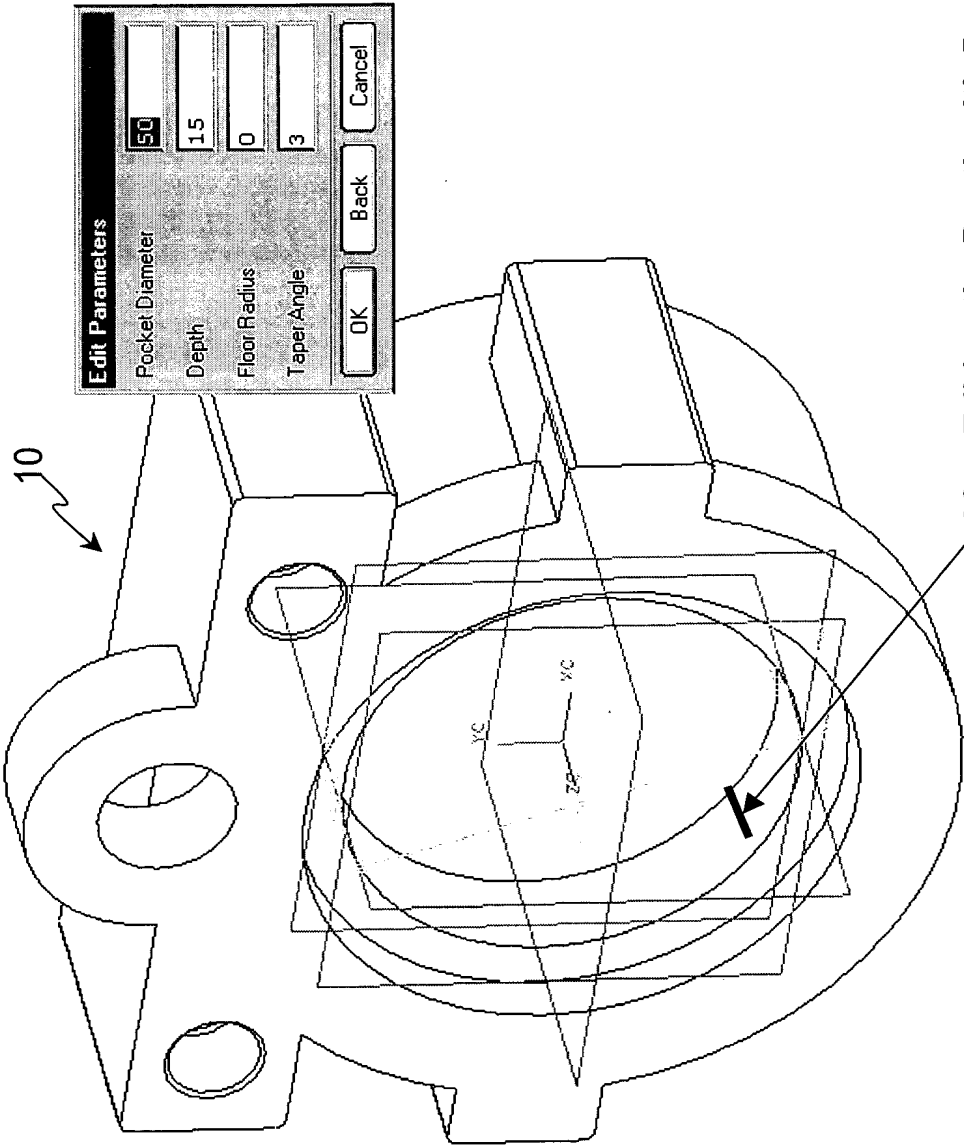


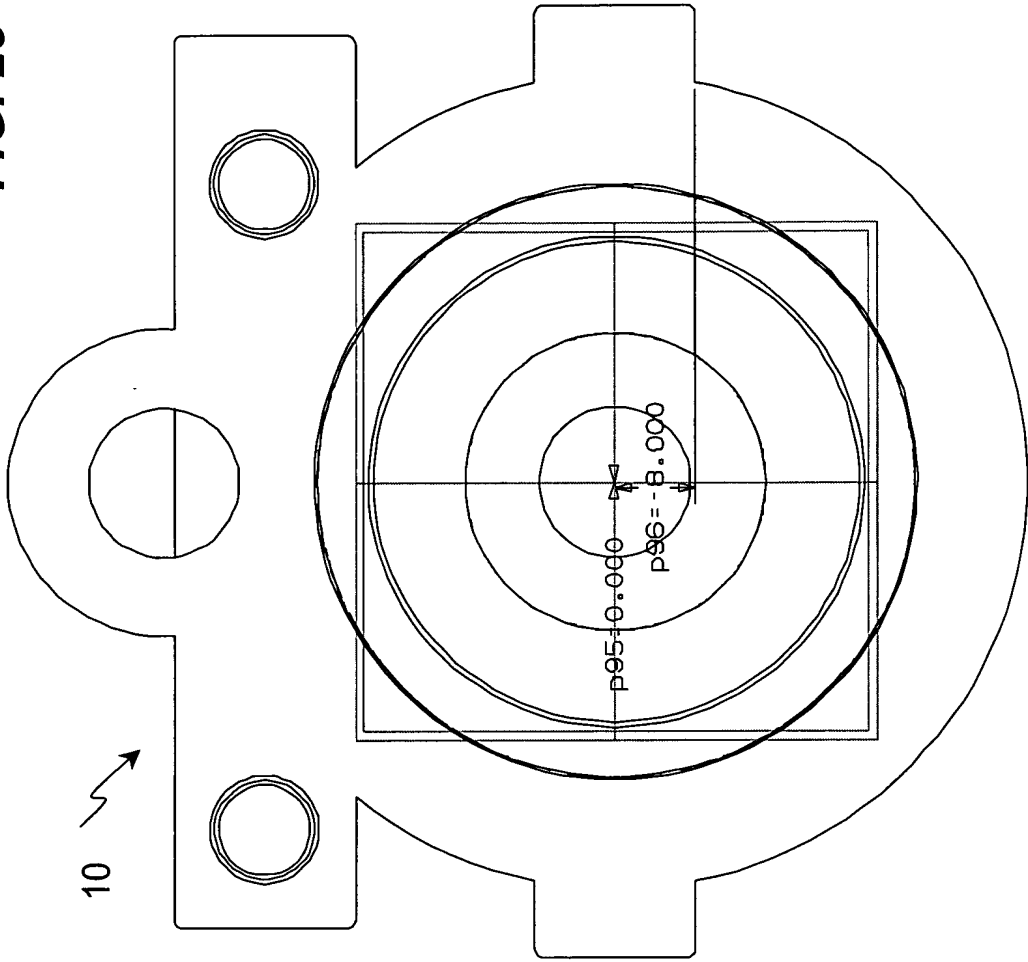
FIG. 27

After Editing the Depth with 5mm extra

# Un-Suppress Simple Hole (17) Reattach & Reposition

This features parent is  
Cylindrical Pocket (16) and  
has no children

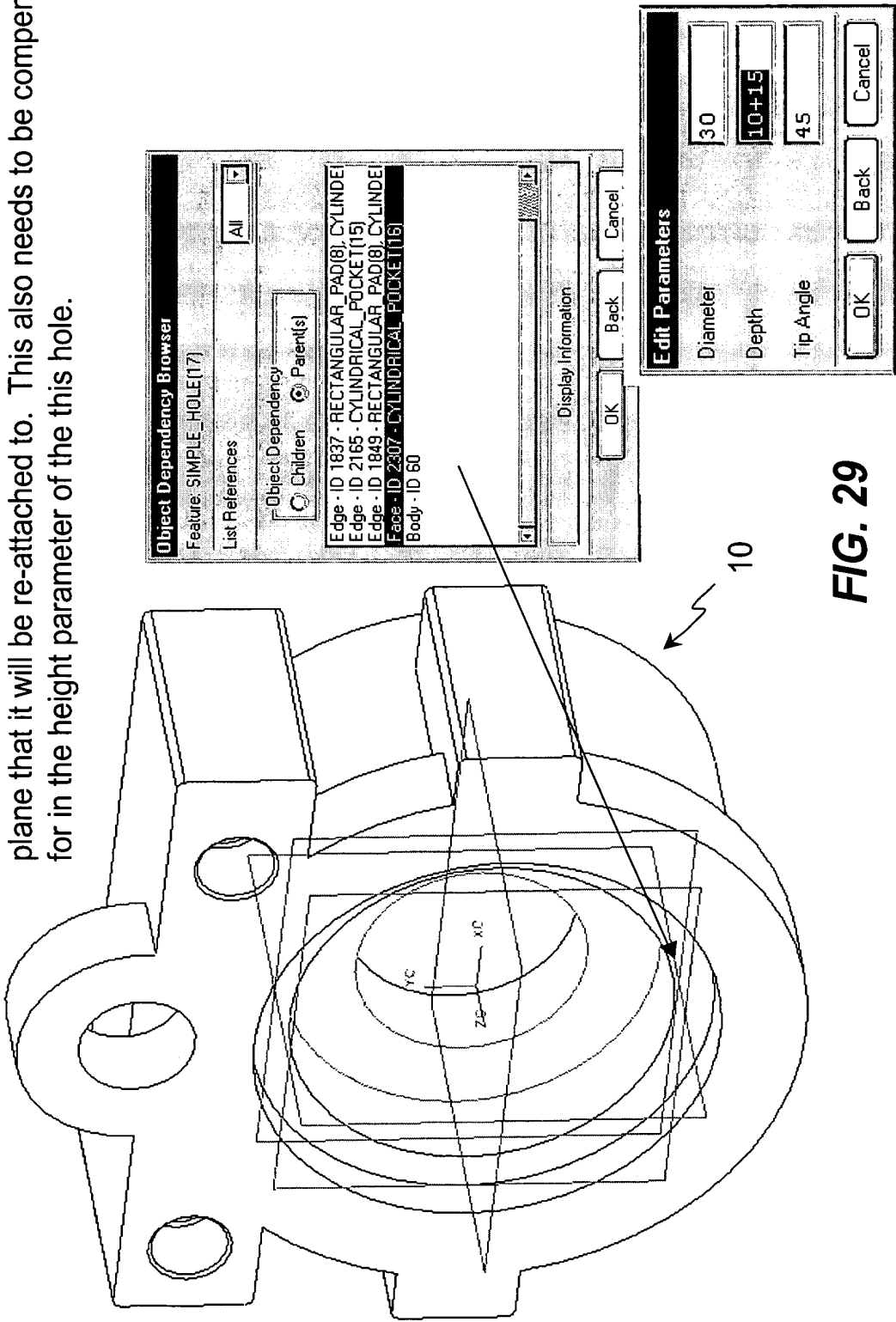
FIG. 28



- ☒ ver to hm new
- ☒ DATUM\_CSYS(0)
  - ☒ DATUM\_PLANE(1)
  - ☒ DATUM\_PLANE(2)
  - ☒ DATUM\_PLANE(3)
  - ☒ CYLINDER(4)
  - ☒ BOSS(5)
  - ☒ RIB(6)
  - ☒ DATUM\_PLANE(7)
  - ☒ RECTANGULAR\_PAD(8)
  - ☒ RECTANGULAR\_PAD(9)
  - ☒ SIMPLE\_HOLE(10)
  - ☒ SIMPLE\_HOLE(11)
  - ☒ SIMPLE\_HOLE(12)
  - ☒ BOSS(13)
  - ☒ CYLINDRICAL\_POCKET(15)
  - ☒ CYLINDRICAL\_POCKET(16)
  - ☒ SIMPLE\_HOLE(17)
  - ☒ BOSS(18)
  - ☒ BOSS(19)
  - ☒ CHAMFER(20)

**Simple Hole (17)**  
Reattach & Reposition

This features starting point is the bottom face of the Cylindrical Pocket (16). The starting point of Simple Hole (17) is 15mm from the plane that it will be re-attached to. This also needs to be compensated for in the height parameter of the this hole.



**FIG. 29**

Simple Hole (17)

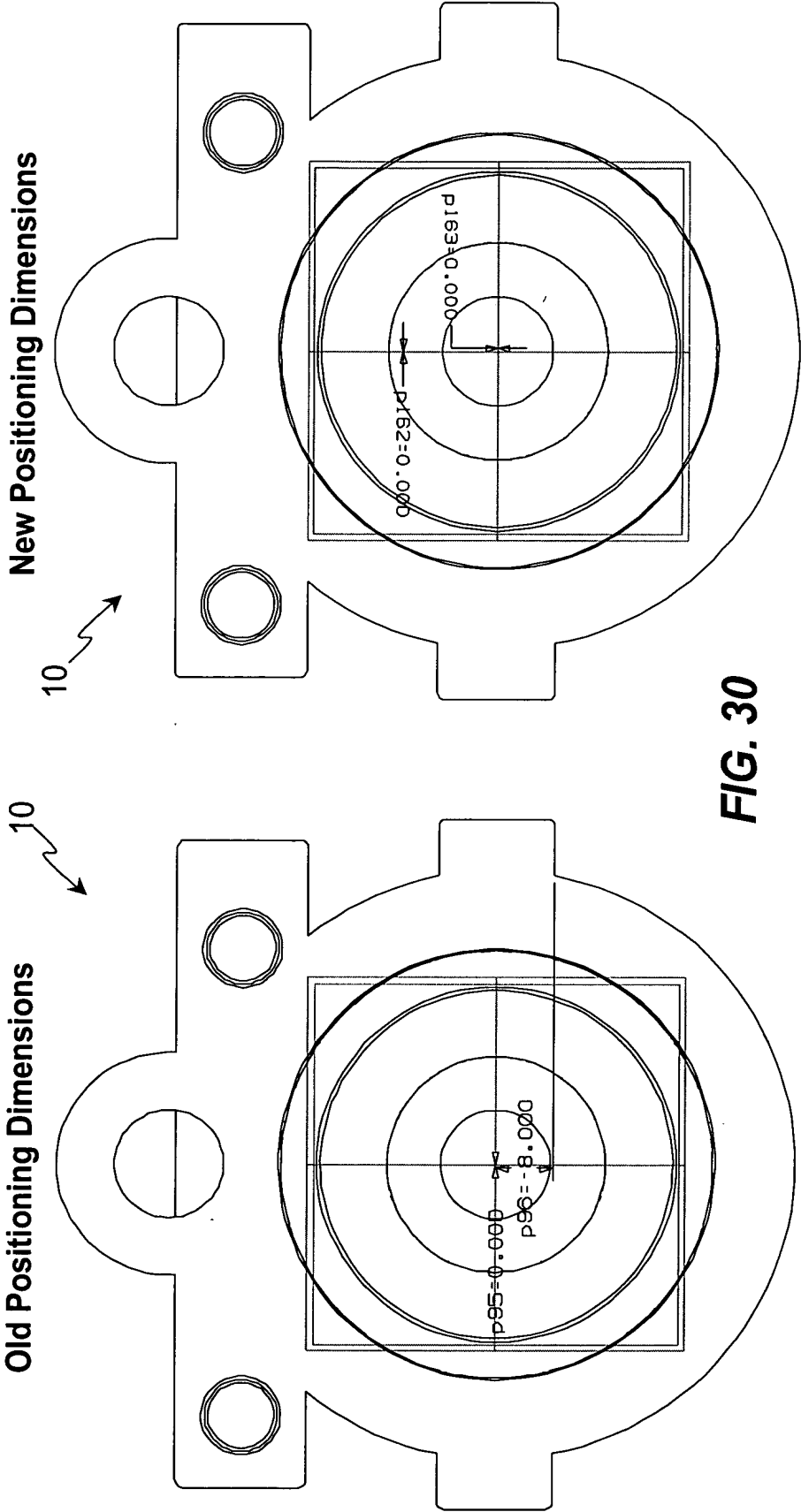


FIG. 30



## Boss (18)

Reposition Only

This feature is already placed on datum plane (7) – reposition dimensions to datums (1 & 3)

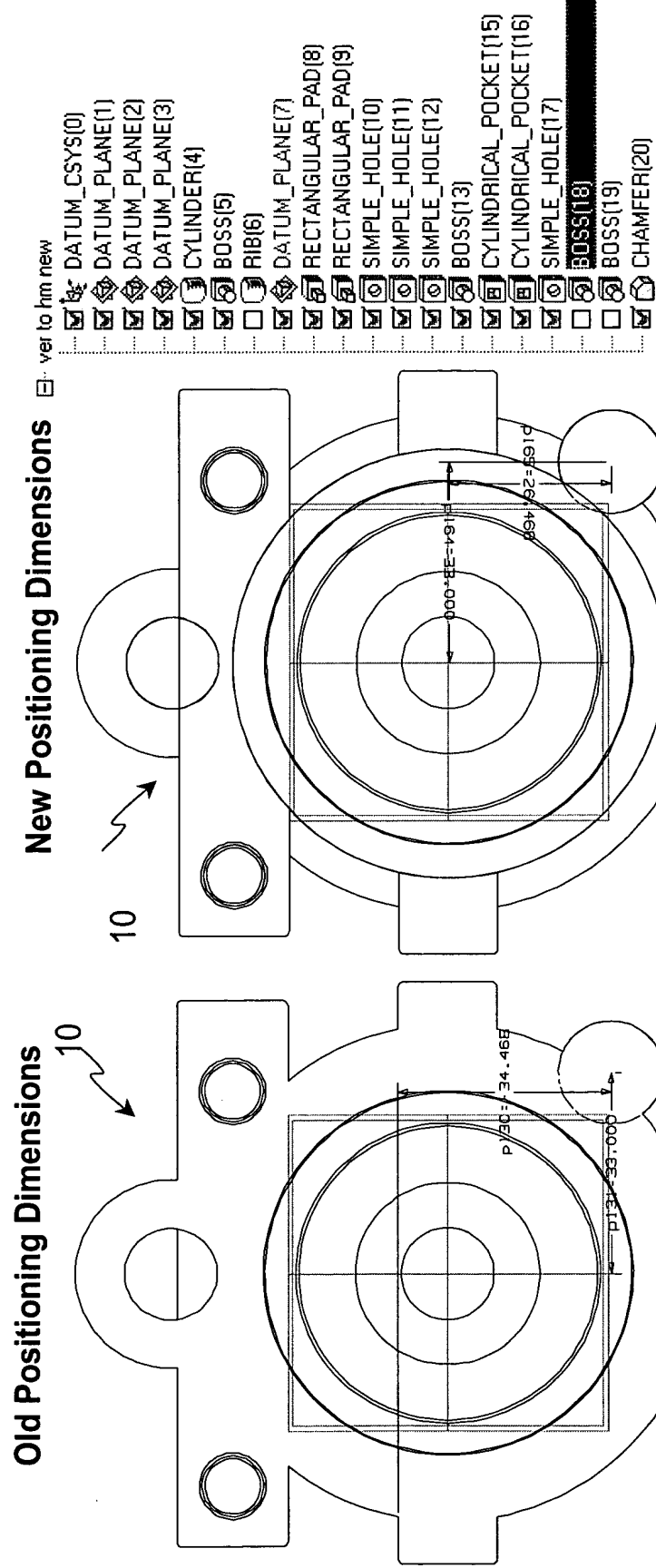


FIG. 31

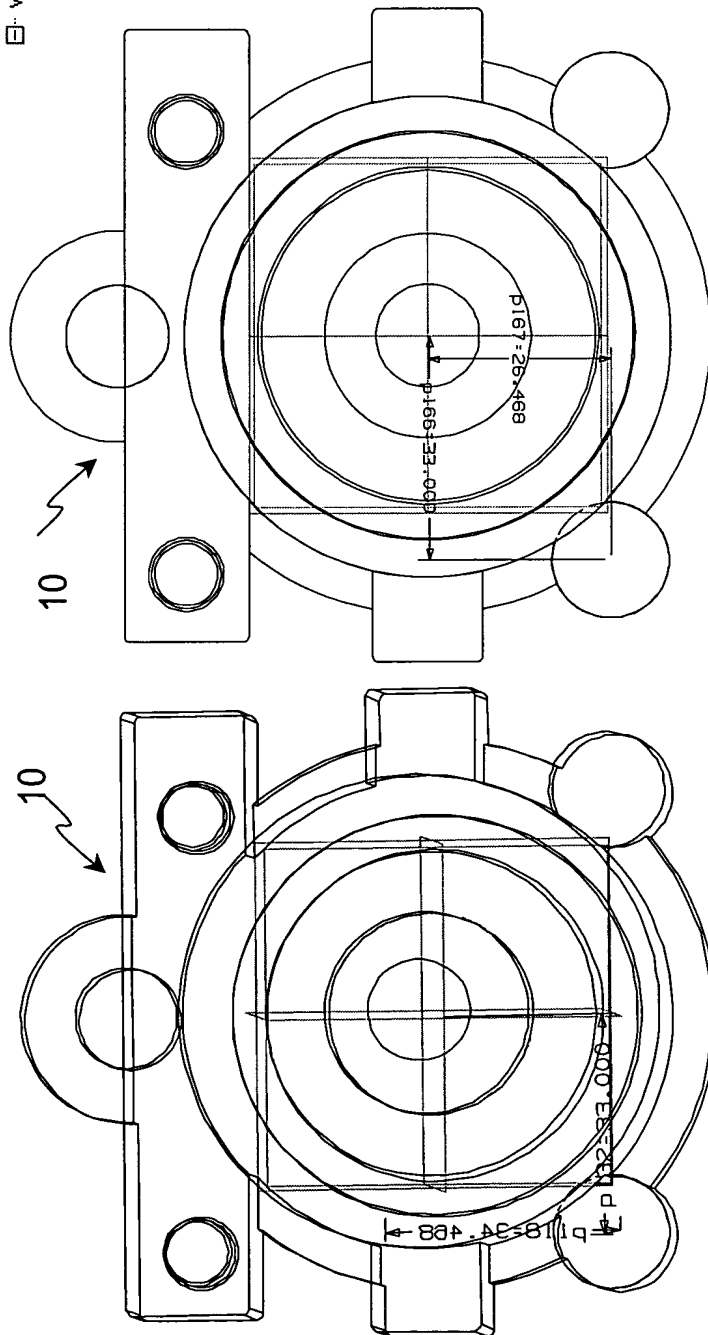
# **Boss (19)**

Reposition Only

This feature is already placed on datum plane (7) – reposition dimensions to datums (1 & 3)

Old Positioning Dimensions

New Positioning Dimensions



**FIG. 32**

**RIB (6)**  
Delete

**Datum Plane (7)**  
Reorder (Best Practice)

Now that all features have been converted from the vertical structure to Horizontal Modeling, the RIB feature can be deleted. Originally, most of the features were placed on and positioned to the RIB, now they are all independent of each other.

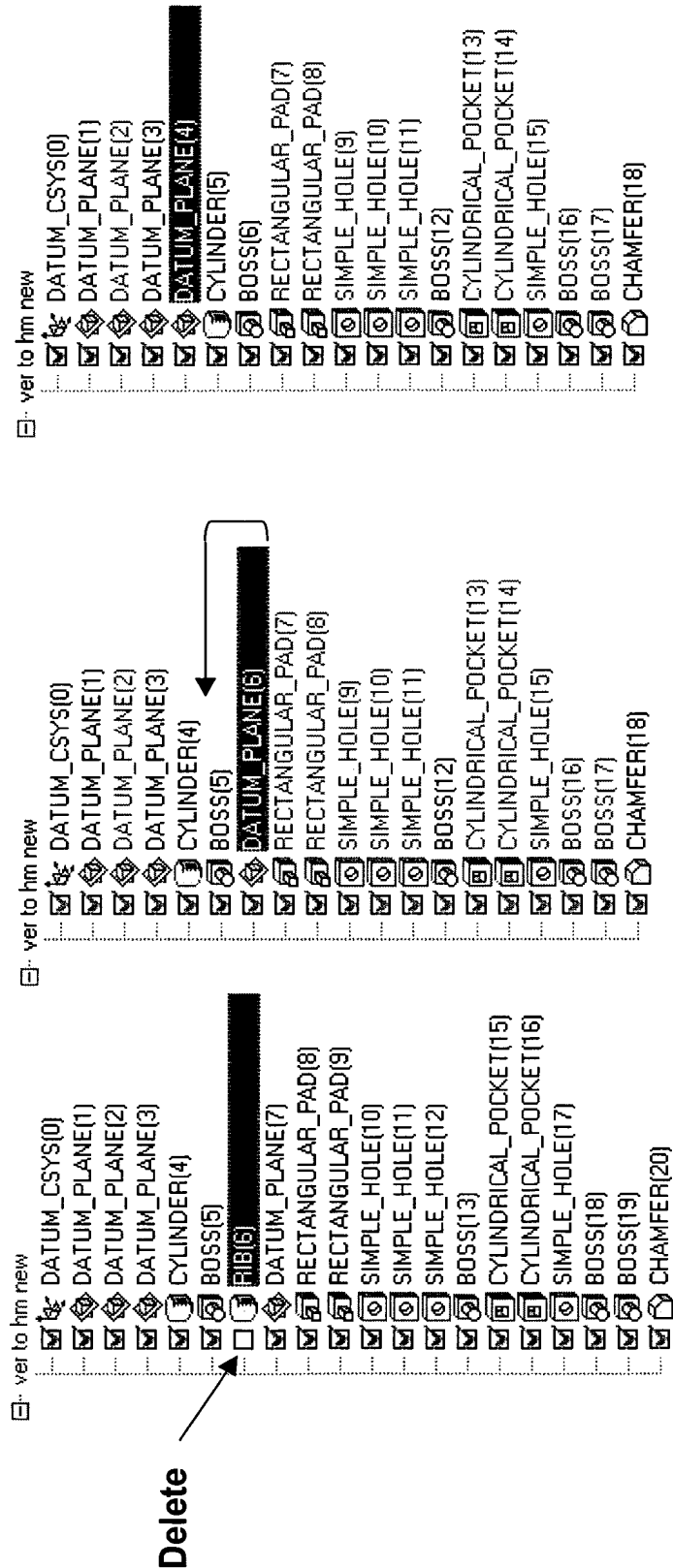


FIG. 33

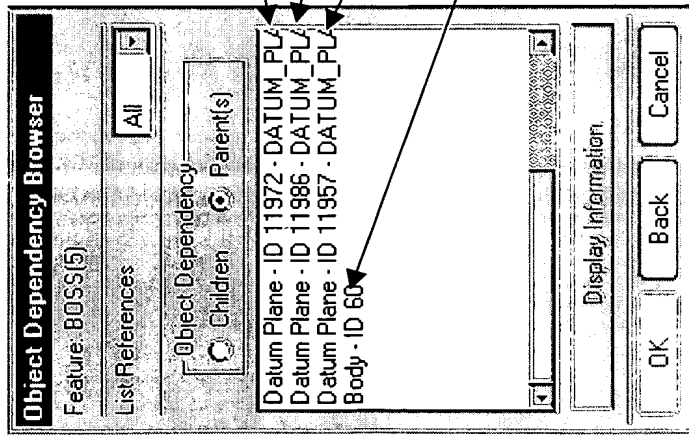
# Ensure All Features have been Converted

To make sure that each feature is Horizontally Structured.

Parent/Child dependencies and the Positioning dependencies have to be checked.

Reveal faces and edges that have dependencies with the selected features.

The ideal Object Dependency Browser reading should read:



## Final Feature List

<input checked="" type="checkbox"/>		DATUM_CSYS(0)
<input checked="" type="checkbox"/>		DATUM_PLANE(1)
<input checked="" type="checkbox"/>		DATUM_PLANE(2)
<input checked="" type="checkbox"/>		DATUM_PLANE(3)
<input checked="" type="checkbox"/>		CYLINDER(4)
<input checked="" type="checkbox"/>		BOSS(5)
<input checked="" type="checkbox"/>		DATUM_PLANE(6)
<input checked="" type="checkbox"/>		RECTANGULAR_PAD(7)
<input checked="" type="checkbox"/>		RECTANGULAR_PAD(8)
<input checked="" type="checkbox"/>		SIMPLE_HOLE(9)
<input checked="" type="checkbox"/>		SIMPLE_HOLE(10)
<input checked="" type="checkbox"/>		SIMPLE_HOLE(11)
<input checked="" type="checkbox"/>		BOSS(12)
<input checked="" type="checkbox"/>		CYLINDRICAL_POCKET(13)
<input checked="" type="checkbox"/>		CYLINDRICAL_POCKET(14)
<input checked="" type="checkbox"/>		SIMPLE_HOLE(15)
<input checked="" type="checkbox"/>		BOSS(16)
<input checked="" type="checkbox"/>		BOSS(17)
<input checked="" type="checkbox"/>		CHAMFER(18)

FIG. 34